SEARCH STATISTICS

Scores:

Mean 19

Median 73

Standard Deviation 42.88

50

Times:

CPU 00:01:14.89 Total Elapsed 00:03:25.00

Number of residues:

1211939

Number of sequences optimized:

3953

The scores below are sorted by optimized score. Significance is calculated based on optimized score.

3 100% identical sequences to the query sequence were found:

Sequence Name	Description	Length	Score	Score	Sig.	Frame
1. P80713	Complete sequence of the matu	295	295	295	6.44	-
2. P80504	Sequence encoded by human tis	295	295	295	6.44	
3. P81503	Human tissue factor	295	295	295	6.44	

The list of other best scores is:

Sequen	nce Name	Description	Length	Init. Score		Sig.	Frane
4.	P93986	**** 6 standard devi Human tissue factor ap **** 5 standard devi	oprotei 295	293	293	6.39	0
5.	R28067	Sequence encoded by tr	uncated 251	251	251	5.41	0
	R39392 R07 0 72	Truncated tissue facto Human tissue factor ac	r. 218 tivator 209	217 177	217 207	4.62 4.38	
8. 9. 10. 112. 13. 14. 15. 16. 17. 18. 190. 223. 24. 25. 267. 289. 311. 331. 335. 337.	R10065 R14480 R22217 R22211 R22212 P70176 R08031 R05041 R12108 P93357 P94365 R04716 R04713 P80215 R04715 R27481 R27745 P80364 R05701 P70768 P82115 R13251 R22220 R10941 R11137 R13335 R25336 R33181 R12789	**** 3 standard devi Newcastle disease viru Newcastle disease viru Sequence of interleuki Sequence of interleuki Sequence of interleuki Sequence of Newcastle Adenyl cyclase from Bo Filamentous haemagglut N-terminal deleted ade Sequence of the cataly Sequence of part of ad Amino acid sequence of Amino acid sequence of RP-III residual protea Extracellular factor r M. leprae 65kD antigen Product of the ssci ge Human carbastatin poly Epstein-Barr virus gly Fibronectin binding pr PECAM-1. Sequence of secretory Mutant protease (delta GAP6 encoded by lambda HypB protein. Lambda clone 101 proti L3T4 mutant M8. M. pneumoniae P1 cytad	ations above mes (NDV) 553 simmun 553 n 5 rec 415 n 5 (IL 415 n 5 (IL 398 Disease 553 rdetell 1706 inin A. 3647 nyl cyc 1445 tic dom 1522 enylate 1705 the 65 572 the hu 573 ium tub 560 the 65 573 se. 806 elated 1822 neptide 673 coprote 927 otein. 1018 interle 396 clone 1047 en. 1047 454 hesin p 1627	ean ***7776667776777768666667777767677776777767777767677776767777	* 1576 1555 1555 1554 1554 1554 1553 1553 1553	3.12 3.17 3.17 3.17 3.17 3.15 3.15 3.11 3.11 3.11 3.11 3.11 3.11	000000000000000000000000000000000000000
39.	R06723 P60723 R22219	Achromobacter protease Sequence of extracellu Sequence of secretory	lar amy 918	6	151 151 151	3.08 3.08 3.08	0

1. FURM-969863-FIG2.PEP (1-295)

P80713 Complete sequence of the mature and precursor form

AC DT

P80713 standard; peptide; 295 AA.
P80713;
10-SEP-1990 (first entry)
Complete sequence of the mature and precursor forms of human tissue factor heavy chain proteins (huTFh and pre-huTFh, respectively)
Human tissue factor heavy chain (huTFh); immunoassays;
precursor human tissue factor heavy chain (pre-huTFh); DE

DE

KW

KW KW OS human tissue factor detection.

Homo sapiens. FH

Location/Qualifiers Key

```
FT
                                33..33
         Protein
Region
                                33..62
         /note="claimed in claim 26.4"
         Region
                                58..80
         /note="claimed in claim 26.1"
                                62..103
         Region
         /note="claimed in claim 22"
         Region
                                73..81
         /note="claimed in claim 26.6"
         Region
                                88..103
         /note="claimed in claim 26.7"
                                126..155
         /note="claimed in claim 26.9"
                                178..199
         Region
         /note="claimed in claim 26.2"
                                187..199
         Region
         /note="claimed in claim 23"
                                193..222
         Region
         /note="claimed in claim 26.3"
         Region
                                222..241
         /note="claimed in claim 26.1"
         W08807543-A.
         06-DCT-1988.
29-MAR-1988; U00998
PF
PR
         25-JUN-1987; US-067103,
        (SCRI-) Scripps Clinic Res.
Eddington TS, Morrissey JH;
WPI; 88-292837/41.
N-PSDB; N80743.
PA
PI
 DR
 New DNA segment -
         has gene encoding human tissue factor heavy chain protein and is
        has gene encoding human tissue factor heavy chain protein and is useful for inhibiting coagulation
Disclosure; Fig 1 and Fig 2; 148pp; English.
It is the amino acid residue sequence of the predominant naturally occuring mature protein form residues 33 to 295. The sequence of the lesser found mature form begins at amino acid residue number 35 and ends at residue 295. A DNA segment which codes for it from about residue 33 to 295 is claimed in claim 2. Also claimed are antibodies which immunoreact with huTFH and the claimed peptides (see FT). The antibodies may be used in immunoassays for detection of huTFH. The claimed peptides may be used to inhibit the binding of huTF to coagulation factor VII/VIIa in vivo. The claimed peptides have an N-terminal H and a C-terminal OH.
        in vivo. The claimed peptides have an N-terminal H and a C-terminal OH. Sequence 295 AA; 16 A; 12 R; 16 N; 11 D; 0 B; 5 C; 10 Q; 21 E; 0 Z; 17 G; 1 H; 15 I; 20 L; 20 K; 2 M; 13 F; 14 P; 23 S; 30 T; 7 W; 12 Y; 30 V;
 SQ
                                295
                                                                        295 Significance = 6.44
Initial Score
                                      Optimized Score =
                                                                        295 Mismatches =
Residue Identity =
                              100% Matches
                                                                =
                                   0
                                      Conservative Substitutions
Gaps
      METPAWPRVPRPETAVARTLLLGWVFAQVAGASGTTNTVAAYNLTWKSTNFKTILEWEPKPVNQVYTVQIST
     KSGDWKSKCFYTTDTECDLTDEIVKDVKQTYLARVFSYPAGNVESTGSAGEPLYENSPEFTPYLETNLGQPT
      100
                                                         110
                                                                        120
                                                                                       130
                                                                                                      140
                                                       180
                                                                     190
      10SFEOVGTKVNVTVEDERTLVRRNNTFLSLRDVFGKDL1YTLYYWKSSSSGKKTAKTNTNEFL1DVDKGEN
      I OSFEGVCTKVNVTVEDERTLVRRNNTFLSLRDVFGKDLIVTLYVWKSSSSGKKTAKTNTNEFLIDVDKGEN
                                                                     190
          150
                        160
                                       170
                                                      180
                                                                                    200
      220 230 240 250 260 270 280 YCFSV@AVIPSRTVNRKSTDSPVECMG@EKGEFREIFYIIGAVVFVVIILVIILAISLHKCRKAGVG@SWKE
      VCFSVOAVIPSRTVNRKSTDSPVECMGOEKGEFREIFVIIGAVVFVVIILVIILAISLAKCRKAGVGOSWKE
       220
                      230
                                    240
                                                   250
                                                                  260
                                                                                 270
                                                                                                280
    290
      NSPLNVS
      NSPLNVS
    290
2. FURM-969863-FIG2.PEP (1-295)
                       Sequence encoded by human tissue factor protein (T
```

ID P80504 standard; protein; 295 AA.
AC P80504;
DT 19-NOV-1990 (first entry)

DE Sequence encoded by busen tissue factor protein (TEP) clone derived from

```
DE
           adipose cDNA libraru
 KW
          Hybridisation; coagulation; blood clotting; therapy.
 08
          Homo sapiens.
 FH
          Key
                                      Location/Qualifiers
          Peptide
                                      1..32
          Protein
EP-278776-A.
                                      33..295
 PD
          17-AUG-1988.
 PF
PR
          12-FEB-1988; 301190.
7-APR-1987; US-035409...
 PR
          05-FEB-1988; US-152698.
(GETH) Genentech Inc.
 PA
PI
          Lawn RM, Wion KL, Vehar GA;
WPI; 88-229602/33.
 DR
         N-PSDB; n81104.

Tissue factor protein and derivs. -
obtd. by recombinant deoxyribonucleic acid techniques, used to
treat chronic bleeding and coagulation-disorders
Claim 5; Fig 2a-2b; 39pp; English.
Tissue factor protein (IFP) free of substances from its natural source is
claimed. TFP is administered providing a coagulation inducing therapeutic
compsn. for various chronic bleeding disorders. Two oligo probes
representing one possible codon choice for each AA of the N-terminal AA
sequence (60 nucleotides) and internal AA sequence near the C-terminal
(81 nucleotides) were designed and sythesised. cDNA clones of human TFP
were obtd. using the DNA probes first to screen a human placental cDNA
library. 1400 BP EcoRI fragment from a placental clone was used to screen
a human adipose cDNA library. The full length human TFP cDNA was contd.
within the cDNA clone lambda TF14. The full length cDNA was inserted into
an expression plasmid and TFP was expressed using mammalian cells (COS)
cells and E.coli.
N-PSDB; n81104.
          cells and E.coli.
Sequence 295 AA;
          16 A; 12 R; 16 N; 11 D; 0 B; 5 C; 10 Q; 21 E; 0 Z; 17 G; 1 H; 15 I; 20 L; 20 K; 2 M; 13 F; 14 P; 23 S; 30 T; 7 W; 12 Y; 30 V;
 SQ
Initial Score
                                                                                      295 Significance = 295 Mismatches =
                                              Optimized Score =
                                    100%
Residue Identity =
                                               Matches
                                               Conservative Substitutions
Gaps
                                      20
       METPAWPRVPRPETAVARTLLLGWVFA@VAGASGTTNTVAAYNLTWKSTNFKTILEWEPKPVN@VYTV@IST
       #ETPAWPRVPRPETAVARTLLLLGWVFAGVAGASGTTNTVAAYNLTWKSTNFKTILEWEPKPVNGVVTVQIST
                    10
                                      20
                                                        30
                                                                                                             60
                                                  100
                                                                    110
                                                                                      120
       KSGDWKSKCFYTTDTECDLTDEIVKDVKGTYLARVFSYPAGNVESTGSAGEPLYENSPEFTPYLETNLGQPT
       ksgdwkskcfyttbtecdltdeivkdvkatylarvfsypagnvestgsageplyenspeftpyletnlgapt
                                  90
                 80
                                                  100
                                                                    110
                                                                                      120
                                                                                                       130
                                                                                                                         140
       150 160 170 180 190 200 210 10SFEGVCTKVNVTVEDERTLYRRNNTFLSLRDVFGKDLIYTLYYWKSSSSGKKTAKTNTNEFLIDVDKGEN
       10SFEGVGTKVNVTVEDERTLVRRNNTFLSLRDVFGKDLTYTLYYMKSSSSCKKTAKTNTNEFLIDVDKGEN
                                               170
                                                                 180
                                                                                  190
       YCFSVQAVIPSRTVNRKSTDSPVECMGQEKGEFREIFYIIGAVVFVVIILVIILAISLHKCRKAGVGQSWKE
       YCFSV@AVIPSRTVNRKSTDSPVECMG@EKGEFREIFYIIGAVVFVVIILVIILAISLHKCRKAGVG@SWKE
         220
                          230
                                            240
                                                             250
                                                                               260
                                                                                                270
     290
       NSPLNVS
       NSPLNVS
     290
3. FURM-969863-FIG2.PEP (1-295)
     P81503
                           Human tissue factor
          P81503 standard; protein; 295 AA.
 AC
          P81503;
 DT
           22-OCT-1990 (first entry)
 DE
           Human tissue factor
 KW
           human tissue factor (HTF) apoprotein; procoagulant;
 KW
OS
          Factor VIII; ss.
           synthetic.
 FH
FT
FT
FT
FT
FT
          Kēy
                                      Location/Qualifiers
          Domain
                                      33..220
          /label=extracellular domain
Domain 221..243
           /label=membrane domain
                                      244..263
           Donain
           /label=cytoplasmic domain
```

FT

```
FT
       /label=signal peptide
 PN
       WO8809817-A.
 PD
       15-DEC-1988.
08-JUN-1988; U01915.
PF
PR
       2-JUN-1986; US-062166.
       14-MAR-1988; US-167870.
(MOUN-) Mount Sinai Sch Med, (UYYA-) Yale University,
       (UYNY-) City Univ New York, (MOUN) Mount Sinai Hosp Res Fdn.
Menerson Y, Konigsberg W;
       WPI; 88-368631/5I.
       New recombinant cloning vehicle expressing human tissue factor - encoding DNA sequences, transformed cells and pure apoprotein
       prods
       Disclosure; pp; English.
A cloned 2147bp cDNA fragment isolated from human placental cDNA
       library encodes a single chain polypeptide preprotein 295 long.
       The signal sequence is post translationally cleaved to give a mature protein of 263 amino acids.
       HTF can be used for inhibiting binding of factor VIII to tissue
       factor.
       See also N81950-2.
      Sequence 295 AA;
16 A; 12 R; 16 N; 11 D; 0 B; 5 C; 10 Q; 21 E; 0 Z; 17 G; 1 H;
15 I; 20 L; 20 K; 2 M; 13 F; 14 P; 23 S; 30 T; 7 W; 12 Y; 30 V;
 SQ
SØ
                           295
Initial Score
                                Optimized Score =
                                                                  Significance =
                                                             295
Residue Identity =
                          100%
                                 Matches
                                                                  Mismatches
Gaps
                                 Conservative Substitutions
     METPAWPRVPRPETAVARTILLGWVFA@VAGASGTTNTVAAYNLTWKSTNFKTILEWEPKPVN@VYTV@IST
    METPAWPRVPRPETAVARTLLLGWVFAGVAGASGTTNTVAAYNLTWKSTNFKTILEWEPKPVNGVYTVGIST
              10
                           20
                                       30
                                                    40
                                                                50
                                                                            60
    80 70 100 110 120 130 140 KSGDWKSKCFYTTDTECDLTDEIVKDVKGTYLARVFSYPAGNVESTGSAGEPLYENSPEFTPYLETNLG@PT
     80
                        90
                                   100
                                                110
                                                            120
                                                                         130
                                                                                     140
     10SFEQVGTKVNVTVEDERTLVRRNNTFLSLRDVFGKDL1YTLYYWKSSSSGKKTAKTNTNEFL1DVDKGEN
    igsfegvgtkvnvtvedertlvrrnntflslrdvfgkdlivtlyvnkssssgkktaktnineflidvdkgen
        150
                    160
                                 170
                                             180
                                                          190
                                                                      200
                                                                                   210
    YCFSV@AVIPSRTVNRKSTDSPVECMG@EKGEFREIFYIIGAVVFVVIILVIILAISLHKCRKAGVG@SWKE
    YCFSVQAVIPSRTVNRKSTDSPVECMGQEKGEFREIFYIIGAVVFVVIILVIILAISLHKCRKAGVGQSWKE
                  230
     220
                              240
                                           250
                                                       260
                                                                    270
                                                                                280
   290
    NSPLNVS
    NSPLNVS
   290
4. FURM-969863-FIG2.PEP (1-295)
                   Human tissue factor apoprotein.
 ID
       P93986 standard; protein; 295 AA.
       P93986;
      22-MAY-1990 (first entry)
Human tissue factor apoprotein.
Human tissue factor; coagulation system; anticoagulant; ds.
 DT
 DE
 OS
       Homo sapiens.
FH
FT
FT
FT
FT
FT
FT
FT
FT
                           Location/Qualifiers
       Key
       Sig_peptide
                           1..32
       /label= 32 AA leader
                           33..251
       Domain
       /label= Extracellular domain
                           252..274
       /label= Membrane domain
Domain 275..295
       /label= Cytoplasmic domain
      71abel= Cytopiasmic domain
EP-347262-A.
20-DEC-1989.
19-JUN-1989; 306176.
17-JUN-1988; US-208895.
(UYYA-) Yale Univ, (UYNY-) City Univ New York.
Nemerson Y, Konigsberg W;
WPI; 89-372479/51.
N-Denby No2782
PN
PD
PF
PR
PA
PI
 DR
 DR
       N-PSDB; N92782.
 PT
       Cloning and expression of human tissue factor - for the prodm. of
 PT
```

```
Disclosure; pp; English.
         The protein is human tissue factor, which may be cloned from plasmid or bacteriophage vectors to produce pure or truncated tissue factor, useful for diagnostic reagents, anticoagulant agents and experimental purposes. Extracellular domain can be removed and used as a soluble tissue factor
         for use as diagnostic reagents, anticoagulant agents and experimental
         studies.
         Sequence
         15 A; 13 R; 16 N; 11 D; 0 B; 5 C; 10 Q; 21 E; 0 Z; 17 G; 1 H; 15 I; 20 L; 20 K; 2 M; 13 F; 15 P; 24 S; 29 T; 6 W; 12 Y; 30 V;
 Sē
                                                                               293
                                                                               293 Significance = 6.39
292 Mismatches = 3
                                         Optimized Score =
Initial Score
Residue Identity =
                                   98%
                                          Matches
                                           Conservative Substitutions
Gaps
      METPAHPRVPRPETAVARTLLLGWVFA@VAGASGTTNTVAAYNLTWKSTNFKTILEWEPKPVN@VYTV@IST
      METPAWPRVPRPETAVARRLLLGWVFAGVAGASGTTNTVAAYNLTWKSTNFKTILEWEPKPVNGOVTV@1ST
                  10
                                   20
                                                                   40
                                                   30
                                                                                    50
      80 90 100 110 120 130 140 KSGDWKSKCFYTTDTECDLTDEIVKDVKGTYLARVFSYPAGNVESTGSAGEPLYENSPEFTPYLETNLG@PT
      ksgdwkskcfyttbtecdltdeivkdvkatylarvfsyppgnvestgsageplyenspeftpyletnigapt
                                              100
                                                                               120
                80
                                                               110
                                                                                               130
                                                                                                               140
      IOSFEQVGTKVNVTVEDERTLVRRNNTFLSLRDVFGKDLIYTLYYWKSSSSGKKTAKTNTNEFLIDVDKGEN
      I OSFEGVGTKVNVTVEDERTLVRRNNTFLSLRDVFGKDLIVTLVVSKSSSSGKKTAKTNTNEFLIDVDKGEN
                           160
                                                           180
                                                                            190
                                                                                            200
                                                                                                            210
           150
                                           170
                                                        250
        220
                                        240
                                                                                         270
                                                                        260
      YCFSV@AVIPSRTVNRKSTDSPVECMG@EKGEFREIFYIIGAVVFVVIILVIILAISLHKCRKAGVG@SWKE
      YCFSVQAVIPSRTVNRKSTDSPVECMGQEKGEFREIFYIIGAVVFVVIILVIILAISLHKCRKAGVGQSWKE
        220
     290
      NSPLNVS
     290
5. FURM-969863-FIG2.PEP (1-295)

    Sequence encoded by truncated tissue factor (tTF)

 ID
         R28067 standard; Protein; 251 AA.
         02-APR-1993 (first entry)
 DT
         Sequence encoded by truncated tissue factor (tTF) cDNA. Activated factor VII; factor VIIa; truncated tissue factor.
 DE
 K₩
 05
         Homo sapiens.
 FH
FT
FT
         Key
                                   Location/Qualifiers
         Peptide
                                   1..32
          /label= leader
 PN
         W09218870-A.
 PD
PF
         29-OCT-1992.
         09-APR-1992; U02898.
 PR
PA
PI
         10-APR-1991; US-683682
          (OKLA-) OKLAHOMA MED RES FOUND.
         Morrissey JJ;
WPI; 92-382277/46.
 DR PTT PSC CCC CCC CCC CCC S0 S0
         N-PSDB; @29716.
        N-PSDB; 029716.
Assay for factor VIIa utilising truncated tissue factor - used to monitor factor VIIa therapy in haemophiliac(s), to screen for elevated factor VIIa levels and assess risk of thrombosis Disclosure; Fig 1; 37pp; English.
Starting with clone pCIF543 a TF1-219 deletion mutant was constructed that contained the coding sequence for the predected leader peptide and extracellular domains, but lacked the predicted transmembrane and cytoplasmic domains. This version of the protein retains cofactor activity but fails to support conversion of
         retains cofactor activity but fails to support conversion of factor VII to VIIa . The essential difference between truncated tissue factor and wild-type tissue factor is that truncated tissue
         factor is no longer tethered to the phospholipid mambrane surface.
         Sequence 251 AA;
13 A; 11 R; 14 N; 11 D; 0 B; 4 C; 9 Q; 20 E; 0 Z; 14 G; 0 H;
7 I; 16 L; 17 K; 2 M; 11 F; 13 P; 19 S; 30 T; 6 W; 11 Y; 23 V;
                                                                               251 Significance = 5.41
251 Mismatches = 0
Initial Score
                                           Optimized Score =
Residue Identity =
                                  100%
                                         Matches
                                           Conservative Substitutions
Gaps
                                                   30
                                                                    40
      X 10 20 30 40 50 60 70
MFTPAHPRVPRPFTAVARTI I I CHVFAQVACASCTTNTVAAYNI THKSTNFKTIL FHFPKPVNQVYTVQIST
```

```
.
AWPRVPRPETAVARTLLLGWVFA@VAGASGTTNTVAAVNLTWKSTNFKTILEWEPKPVNGVYTV@IST
                         20
                                    30
                                                40
                                                            50
    KSGDWKSKCFYTTDTECDLTDEIVKDVK@TYLARVFSYPAGNVESTGSAGEPLYENSPEFTPYLETNLG@PT
                                 100
                                             110
                                                         120
                                                                    130
                                                                                140
                               170
    IOSFEQVGTKVNVTVEDERTLVRRNNTFLSLRDVFGKDLIYTLYYWKSSSSGKKTAKTNTNEFLIDVDKGEN
     lósfegygtkynytvedertlyrnnytflslrdyfgkoliytlyymkssssgkktaktnineflidydkgen
        150
                                          180
                                                      190
                                                                              210
                   160
                               170
                                                                  200
    220 230 240 X 260 270 280 YCFSVQAVIPSRTVNRKSTDSPVECMGQEKGEFREIFYIIGAVVFVVIILVIILAISLHKCRKAGVGQSWKE
                                                    260
    220
                 230
                            240
   290
    NSPLNVS
6. FURM-969863-FIG2.PEP (1-295)
                  Truncated tissue factor.
      R39392 standard; Protein; 218 AA.
      R39392;
       12-JAN-1994 (first entry)
       Truncated tissue factor.
      Monoclonal antibody; zymogen; rapid; protein isolation; calcium; presence; fusion protein; affinity chromatography.
      Homo sapiens.
WD9313211-A.
08-JUL-1993.
29-DEC-1992; U11270.
03-JAN-1992; US-816679.
PR
PA
PI
       (OKLA-) OKLAHOMA MED RES FOUND.
      Esmon CT, Morrissey JH, Rezaie A. WPI; 93-227327/28. N-PSDB; 045779.
      Fusion protein allowing rapid isolation of protein from soln. -
      comprises desired protein and epitope recognised by monoclonal
      antibody HPC-4
Disclosure; Page 24,25; 42pp; English.
      The sequence is that encoding truncated tissue factor, the
      truncated tissue factor protein lacks the predicted transmembrane and cytoplasmic domains of tissue factor. The truncated tissue
       factor is no longer tethered to the phospholipid membrane surface.
      This soluble tissue factor is not a cofactor for precursor factor
      VII (FVII).
      Sequence 218 AA;
7 A; 8 R; 14 N; 11 D; 0 B; 4 C; 8 Q; 18 E; 0 Z; 12 G; 0 H;
7 I; 13 L; 17 K; 1 M; 10 F; 9 P; 18 S; 27 T; 4 W; 11 Y; 19 V;
                         217 Optimized Score =
Initial Score
                                                         217 Significance =
Residue Identity =
                        100%
                                                         218
                               Matches
                                                               Mišmatches
                               Conservative Substitutions
Gaps
    METPAWPRVPRPETAVARTLLLGWVFA@VAGASGTTNTVAAYNLTWKSTNFKTILEWEPKPVN@VYTV@IST
                                           cttntvaavnLtwkstnfkt1Lewepkpvngvytvg1st
                                                    10
                                                                20
    KSGDWKSKCFYTTDTECDLTDEIVKDVKGTYLARVFSYPAGNVESTGSAGEPLYENSPEFTPYLETNLGQPT
    kagdwkakceyttotecoltoelykovkatylarvesypagnyestasageplyenspeetpyletnilgapt
   40
               50
                          60
                                      70
                                                  80
                                                             90
                                                                        100
                                                                                   110
                                                       190
                                           180
    IQSFEQVGTKVNVTVEDERTLVRRNNTFLSLRDVFGKDLIYTLYYMKSSSSGKKTAKTNTNEFLIDVDKGEN
     I OSFEQVCTKVNVTVEDERTLVRRNNTFLSLRDVFGKDLIVTLVVWKSSSSGKKTAKTNTNEFLIDVDKGEN
           120
                       130
                                  140
                                              150
                                                          160
                                                                      170
    220 230 240 250 260 270 280 YCFSy@avipsrtvnrkstdspvecmg@ekgefreifyligavvfvviilviilaislhkcrkagvg@swke
    190
                    200
                                210
```

290 NCPI NUC

ID

DT DE

KW KW OS

PN PD

```
7. FURM-969863-FIG2.PEP (1-295)
    R07072
                       Human tissue factor activator.
         RQ 072 standard; protein; 209 AA.
 ID
        RO7072

RO7073:

10-JAM-19: (first entry)

Human tissue factor activator.

Possed factor; menal disease; sandwich immunoassay.

Homo Sepiens.

U09008956-A.
 AC
 DT
 DE
 K₩
 05
 PN
 PD
         -AUG-1990.
        02-FEB-1990; J90127.
02-FEB-1989; JP-022636.
17-FEB-1989; JP-036226.
18-APR-1989; JP-096456.
 PF
         04-DEC-1989; JP-314602.
 PA
PI
        (TEIJ ) TEIJIN KK.
Koike Y, Sumi Y, Ichikawa Y;
WPI; 90-261027/34.
 DR PT PS CC CC CC CC CC
         Human tissue factor activator detection in human urine - by
        Human tissue factor activator detection in number unine - by sandwich immunoassay, for diagnosis of renal disease Disclosure; page 5; 54pp; Japanese. This apoprotein of human tissue factor (thromboplastin) differs from that of known serum tissue factor. Its presence in e.g. urine samples is determined using a sandwich immunoassay with one or more monoclonal antibodies (MAbs) to this sequence. One Ab is immobilized and the other labelled with e.g. an enzume. It is
        immobilised and the other labelled with e.g. an enzyme. It is useful in the diagnosis of renal diseases such as nephritis,
 CC
        nephrosis and kidney stones. See also R07073.
                       209 AA;
 SQ
             A; 7 R; 14 N; 11 D; 0 B; 4 C; 7 Q; 15 E; 0 Z; 10 G; 0 H; 1; 13 L; 16 K; 1 M; 9 F; 9 P; 19 S; 27 T; 4 W; 10 Y; 19 V;
 SQ
 50
                                 177
                                        Optimized Score =
                                                                         207
                                                                                Significance =
Initial Score
                                                                         209
                                 99%
Residue Identity =
                                        Matches
                                                                                Mismatches
                                        Conservative Substitutions
Gaps
                                   1
                                                                                            60
                                                                             50
     METPAWPRVPRPETAVARTLLLGWVFAQVAGASGTTNTVAAYNLTWKSTNFKTILEWEPKPVNQVYTV@IST
                                                     SCHTNIVAAYNLIWKSINFKIILEWEPKPONGOYIVGIST
                                                                 10
                                           100
                                                          110
                                                                                        130
     KSGDWKSKCFYTTDTECDLTDEIVKDVK@TYLARVFSYPAGNVESTGSAGEPLYENSPEFTPYLETNLG@PT
                 50
                                60
                                               70
                                                                             90
                                                                                           100
                                                                                                         110
                                                                      190
                                        170
                                                                                    200
      10SFE0VGTKVNVTVEDERTLVRRNNTFLSLRDVFGKDL1YTLYY#KSSSSGKKTAKTNTNEFL1DVDKGEN
      10SFEGVGTKVNVTVEDERTLVRRNNTFLSLRDVFGKDLIYTL-YHKSSSSGKKTAKTNTNEFLIDVDKGEN
             120
                            130
                                           140
                                                          150
                                                                          160
                                                                                                        180
                                     240 X
                                                    250
      YCFSV@AVIPSRTVNRKSTDSPVECMG@EKGEFREIFYIIGAVVFVVIILVIILAISLHKCRKAGVG@SWKE
      190
                           500
    290
      NSPL
8. FURM-969863-FIG2.PEP (1-295)
                       Newcastle disease virus (NDV) F gene product.
        R10065 standard; Protein; 553 AA.
        R10065;
        14-MAR-1991 (first entry)
Newcastle disease virus (NDV) F gene product.
 DT
 DE
         Avipoxvirus; fowlpoxvirus; vacciñe.
 K₩
 0S
         Newcastle disease virus.
 PN
         EP-404576-A.
 PD
         27-DEC-1990.
         21-JUN-1990; 306806.
22-JUN-1989; JP-160157.
 PF
 PA
         (JAPG ) NIPPON ZEON KK.
 ΡI
         Yangida N, Saeki S, Okawa S, Kmamogawa K, Iritani Y;
 PI
        Sawaguchi K;
₩PI; 91-001591/01.
 DR
 DR
         Q-PSDB; Q10060.
         Recombinant avipox virus - contg. CDNA coding for Newcastle
```

disease virus in region non-essential for proliferation, used as

live varrine in foul

```
VII (FVII).
         Sequence 672 BP;
                                             221 A;
                                                              137 C;
 SQ
                                                                            161 G;
                                   644 Optimized Score = 658 Significance = 35.87
97% Matches = 662 Mismatches = 9
5 Conservative Substitutions = 0
Initial Score
Residue Identity =
                                                                                         X 200
      TCGCTCGGACGCTCCTGCTCGGCTGGGTCTTCGCCCAGGTGGCCGGCGCTTCAGGCACTACAAATACTGTGG
                                                                                         cccccaccaccatactete
                                       240
                                                       250
                                                                        260
                                                                                         270
      CAGCATATAATTTAACTTGGAAATCAACTAATTTCAAGACAATTTTGGAGTGGGAACCCAAACCCGTCAATC
      CAGCATATAATTAACTTGGAAATCAACTAATTTCAAGACAATTTTGGAGTGGGAACCCAAACCCGTCAATC
                                40
                                                50
                                                                 60
                                                                                 70
                                                                                                  80
   290
                   300
                                                    320
                                                                     330
                                                                                     340
      100
                          110
                                           120
                                                            130
                                                                                             150
                                                 390
                                                                 400
                                                                                  410
      AGTGTGACCTCACCGACGAGATTGTGAAGGATGTGAAGCAGACGTACTTGGCACGGGTCTTCTCCTACCCGG
      170
                       180
                                       190
                                                        200
                                                                                          220
                                                                                                          230
                                                                         210
             440
                             450
                                                              470
                                                                               480
                                             460
      CAGGGAATGTGGAGAGCACCGGTTCTGCTGGGGAGCCTCTGTATGAGAACTCCCCAGAGTTCACACCTTACC
      CAGGGAATGTGGAGAGCACCGGTTCTGCTGGGGGAGCCTCTGTATGAGAACTCCCCAGAGTTCACACCTTACC
    240
               250
                            260
                                                  270
                                                                280
                                                                                  290
                                                                                                       300
                                                                                                                        310
                                          530
                                                           540
                                                                           550
      TGGAGACAAACCTCGGACAGCCAACAATTCAGAGTTTTTGAACAGGTGGGAACAAAAGTGAATGTGACCGTAG
      teeyeyeyere teerifik territari karana karana territari ka
                                                  340
                                                                  350
                                                                                   360
      AAGATGAACGGACTTTAGTCAGAAGGAACAACACTTTCCTAAGCCTCCGGGATGTTTTTGGCAAGGACTTAA
      AAGATGAACGGACTTTAGTCAGAAGGAACAACACTTTCCTAAGGCTCGGGGATGTTTTTGGCAAGGACTTAA
                                                                       430
              390
                                                      420
                          400 410
                                                                                                 440
                                                    680
                                                                    690
                                                                                     700
                                   670
      460
                           470
                                           480
                                                           490
                                                                             500
                                                                                             510
                                                 750
                                                                 760
      †<u>GA</u>††GA†G†GA†AAAGGAGAAAAC†AC†G†††CAG†G††<u>CAAGAG†GA††CCC†CCCGAAGAG</u>†HAACC
                        540
        530
                                        550
                                                         560
                                                                          570
                                                                                          580
                                                                                                          590
                                                                                               850
                                             820
                                                                               840
                                                              830
      GGAAGAGTACAGACAGCCCGGTAGAGTGTATGGGCCAGGAGAAAGGGGGAATTCAGAGAAATATTCTACA-TC
      600
                   610
                                     620
                                                     630
                                                                      640
                                                                                       650
                                                                                                          660
      ATTGGAGCTGTGGTATTTGTGGTCATCATCCTTGTCATCATCCTGGCTATATCTCT
      --taga
        670 X
7. FURM-969863-FIG2.SEQ (1-987)
                     Sequence of the human COL1A1 gene extending from i
 ID
         043701 standard; DNA; 5931 BP.
 AC
DT
         Q43701;
         24-SEP-1993 (first entry)
         Sequence of the human COLIA1 gene extending from intron 25 to exon
 DE
 DE
KW
          Type 1 procollagen; CDL1A1; CDL2A1; osteoporosis; ss.
         Homo sapiens.
 05
 PN
         ₩09311149-A.
         10-JUN-1993.
 PD
         01-DEC-1992; U10355.
 PF
```

PR

```
170
                               180
                                                  190
                                                                                       210
                                                                                                          220
                                                                                                                             230
                                                                     200
                                                                                           350
       TCAAATAAGCACTAAGTCAGGAGATTGGAAAAGCAAATGCTTTTACACAACAGACACAGAGTGTGACCTCAC
       240
                                                                                   280
                                                                                                                         300
                                              260
                                                                270
                                                                                                      290
                                                  400
       CGACGAGATTGTGAAGGATGTGAAGCAGACGTACTTGGCACGGGTCTTCTCCTACCCGGCAGGGAATGTGGA
       310
                       320
                                          330
                                                             340
                                                                               350
                                                                                                  360
                                                                                                                     370
                                                                 480
       GAGCACCGGTTCTGCTGGGGAGCCTCTGTATGAGAACTCCCCAGAGTTCACACCTTACCTGGAGACAAACCT
       GAGCACCGG++C+GC+GGGGGGGCC+C+G+A+GAGAAC+CCCCAGAG++CACCACC++ACC+GGAGACAAACC+
                                       400
                                                         410
                                                                            420
                                                                                              430
                                                                                                                 440
                    390
     520
                                                             550
                                                                               560
       CGGACAGCCAACAATTCAGAGTTTTGAACAGGTGGGAACAAAAGTGAATGTGACCGTAGAAGATGAACGGAC
       CGGYCY CONTROL OF THE CONTROL OF THE
                460
                                   470
                                                     480
                                                                        490
                                                                                           500
                                                                                                             510
                                                                                                                                520
                    600
                                       610
                                                         620
                                                                            630
                                                                                                                 650
       TTTAGTCAGAAGGAACAACACTTTCCTAAGCCTCCGGGATGTTTTTGGCAAGGACTTAATTTATACACTTTA
       +++AGTCAGAAGGAACAACAC+++CC+AAGCC+CCGGGATG+++++GGCAAGGAC++AA+++A+ACAC+++A
            530
                               540
                                                  550
                                                                    560
                                                                                       570
                                                                                                          580
                                                     690
                                                                        700
                                                                                          710
       600
                           610
                                              620
                                                                                   640
                                                                630
                                                                                                      650
                                                                                                                         660
                                                                                       780
                                                                    770
                                                  760
       670
                       680
                                          690
                                                             700
                                                                               710
                                                                                                  720
                                                                                                                     730
                                                                                                                                        740
                                                                840
                                              830
                                                                                   850
       CÄĞCCCGGTAGÄĞTGTATGGGCCÄGGAGAAAĞĞĞGAATTCAĞAĞAAATATTCTACATCATTĞGAGCTGTGGT
       CAGCCCGCTAGAGTGTATGGGCCAGGAGAAAGGGGAAATTAGAGAATAAGAATTC
       80 890 900 910 ATTTGTGGTCATCATCCTGGC
6. FURM-969863-FIG2.SEQ (1-987)
     045779
                             Truncated tissue factor gene.
 ID
           Q45779 standard; cDNA; 672 BP.
 AC
           045779;
 DT
           12-JAN-1994 (first entry)
 DE
           Truncated tissue factor gene.
 KW
KW
          Monoclonal antibody; zymogen; rapid; protein isolation; calcium; presence; fusion protein; affinity chromatography; tTF; ss.
 OS
FTT FTT FT PD PF
PR
           Homo sapiens.
          Key
CDS
                                        Location/Qualifiers
                                        4..660
           /*tag= a
           misc_recomb
           /∗tag= b
                                        67..72
           misc_recomb
           /*tag= c
₩09313211-A.
          08-JUL-1993.
29-DEC-1992; U11270.
           03-JAN-1992; US-816679
 PA
PI
DR
PT
PT
PS
CC
CC
CC
           (OKLA-) OKLAHOMA MED RES FOUND.
          Esmon CT, Morrissey JH, Rezaie A. WPI; 93-227327/28.
          P-PSDB; R39392.
           Fusion protein allowing rapid isolation of protein from soln.
           comprises desired protein and epitope recognised by monoclonal
           antibody HPC-4
          Example 1; Page 24,25; 42pp; English.
The sequence is that encoding truncated tissue factor, the
           truncated tissue factor protein lacks the predicted transmembrane and cytoplasmic domains of tissue factor. The truncated tissue
           factor is no longer tethered to the phospholipid membrane surface.
This soluble tissue factor is not a cofactor for precursor factor
```

```
<u>ACTÁATGAGÍTTÍTGATÍGATGTGGATÁAAGGAGAAAACTACTGTTTCAGTGTTCAAGCAGTGATTCCCTCC</u>
                                                                      750
                                                                                             760
         CGAACAGTTAACCGGAAGAGTACAGACAGCCCGGTAGAGTGTATGGGCCAGGAGAAAGGGGAATTCAGAGAA
         LGAACAG++AACCGGAAGAG+ACAGACCCCGG+AGAG+C+ACGGCCAGGAGAAAGGGAA++CAGAGAAA
                    800
                                          810
                                                                 820
                                                                                         830
                                                                                                               840
                                                                                                                                      850
                                                                                                                                                             860
         ATATTCTACATCATTGGAGCTGTGGTATTTGTGGTCATCATCCTTGTCATCATCCTGGCTATATCTCTACAC
                                                                                                                                  920
                                      880
                                                             890
                                                                                    900
                                                                                                           910
                870
                                                                                    960
         AAGTGTAGAAAGGCAGGAGTGGGGCAGAGCTGGAAGGAGCTCCCCACTGAATGTTTCATAA
         AAGTGTAGAAAGGCAGGAGTGGGGGAGAGCTGGAAGGAGAACTCCCCACTGAATGTTCATAAAGGGAAGCAC
           940
                                 950
                                                       960
                                                                               970
                                                                                                      980
                                                                                                                             990
                                                                                                                                                 1000
         TGTTGGAGCTACTGCAAATGCTATATTGCACTGTGACCGAG
                                                1030
     1010
                         1020
5. FURM-969863-FIG2.SEQ (1-987)
                                   Sequence of truncated tissue factor (tTF) cDNA.
             Q29716 standard; cDNA; 795 BP.
             02-APR-1993 (first entry)
  DT
             Sequence of truncated tissue factor (tTF) cDNA.
  DΕ
  KW
             Activated factor VII; factor VIIa; truncated tissue factor; ss.
  05
             Hono sapiens.
 FH FT FT FT FT PN
                                                 Location/Qualifiers
             Key
             sig_peptide
/*tag= a
                                                 1..33
             CDS
                                                  34..130
             /#tag= b
              /product= leader peptide
             WD9218870-A.
 PD
             29-OCT-1992.
             09-APR-1992; U02898.
10-APR-1991; US-683682.
 PF
 PR
PA
PI
             (OKLA-) OKLAHOMA MED RES FOUND.
            Morrissey JJ;
WPI; 92-382277/46.
P-PSDB; R28067.
 DŘ
 DR
            Assay for factor VIIa utilising truncated tissue factor - used to monitor factor VIIa therapy in haemophiliac(s), to screen for elevated factor VIIa levels and assess risk of thrombosis
           Disclosure; Fig 1; 37pp; English.
Starting with clone pCIF543 a TF1-219 deletion mutant was constructed that contained the coding sequence for the predected
             leader peptide and extracellular domains, but lacked the predicted transmembrane and cytoplasmic domains. This version of the protein retains cofactor activity but fails to support conversion of factor VII to VIIa. The essential difference between truncated
            tissue factor and wild-type tissue factor is that truncated tissue factor is no longer tethered to the phospholipid mambrane surface. Sequence 795 BP; 234 A; 186 C; 199 G; 176 T;
                                                                                                               785 Significance = 43.73
786 Mismatches = 9
Initial Score
                                                  781
                                                            Optimized Score =
Residue Identity =
                                                  98%
                                                                                                   =
                                                            Matches
                                                            Conservative Substitutions
Gaps
         GGCCGGCCCAGGGCGCCTTCAGCCCAACCTCCCCAGCCCCACGGGCGCCACGGAACCCGCTCGATCTCGCCG
                                                                                                                            CG--TTCCGC+CGA+C+CGCCG
         90 100 110 120 130 140 150 CCAACTGGTAGACATGGAGACCCCTGCCTGGCCCCGGGTCCCCGAGACCGCCGTCGCTCGGACGCT
         ccyycteet very representation of the contract of the contraction of th
                                                                                               60
                                                                           190
                                                                                                  200
                                                                                                                         210
         CCTGCTCGGCTGGGTCTTCGCCCAGGTGGCCGGCGCTTCAGGCACTACAAATACTGTGGCAGCATATAATTT
         cctgctcggctgggtcttcgcccaggtggccggcttcaggcactacaaatactgtggcagcatataaattt
                    100
                                          110
                                                                 120
                                                                                        130
                                                                                                               140
                                                                                                                                      150
         <u>┇</u>┇┸┼┼┇┇┇┇┧┼╏┇╀┼┇┇┼┼┧┇╏┼┆┇┟┼┇╏┼┼╏╏┇┼┼╏╏┇┆┼╏┆┇┇╏┼┞╏╏╏┼┞╏╏┪┼┢┇╏┼┼┇╏╏┼┼┇
```

```
Sig_peptide
                                        112..207
 FT
FT
FT
           /±tag= a
           Mat_peptide
                                        208..999
          /*tag= c
EP-347262-A.
 PN
PD
           20-DEC-1989.
           19-JUN-1989; 306176
 PF
 PR
           17-JUN-1988; US-208895.
 PA
PI
           (UYYA-) Yale Univ, (UYNY-) City Univ New York.
          Nemerson Y, Konigsberg W; WPI; 89-372479/51.
 DR
 DR
PT
PT
PS
CC
CC
CC
          P-PSDB; P93986.
          Cloning and expression of human tissue factor - for the prodn. of diagnostic reagents, anticoagulant agents and for experimental studies.
          Disclosure; pp; English.
cDNA fragment codes for the entire human tissue factor gene, which may be cloned into plasmid or bacteriophage vectors to produce pure or truncated tissue factor, useful for diagnostic reagents, anticoagulant agents and experimental purposes.
Sequence 2147 BP; 613 A; 455 C; 477 G; 602 T;
 CC
 SQ
                                                                                          983
                                        983 Optimized Score =
Initial Score
                                                                                                   Significance = 55.32
Residue Identity =
                                                                                          983 Mišmatches
                                                 Matches
                                                 Conservative Substitutions
Gaps
                                                                                                                      50
                             CTCGCACTCCCTCTGGCCGGCCCAGGGCGCCTTCAGCCCAACCTCCCCAGCCCCACGGGC
       10 X
                                        20
                                                                             40
                                                                                               50
                                                          90
                                                                           100
       90
                                                     100
                  80
                                                                       110
                                                                                         120
                                                                                                            130
                                                                                                                               140
       140 150 160 170 180 190 200 CCCGAGACCGCCGTCGGCTCCTGCTCGGCTGGGTCTTCGCCCAGGTGGCCGGCGCTTCAGGCACT
       ccceyever.
                                                                    180
                                                                                      190
                               160
                                                 170
            150
       ACAAATACTGTGGCAGCATATAATTTAACTTGGAAATCAACTAATTTCAAGACAATTTTGGAGTGGGAACCC
       550
                                             240
                                                                250
                                                                                  260
                           230
                                                                                                     270
       AAACCCGTCAATCAAGTCTACACTGTTCAAATAAGCACTAAGTCAGGAGATTGGAAAAGCAAATGCTTTTAC
       AAACCCC+CAA+CAAG+C+ACAC+G++CAAA+AAGCAC+AAG+CAGGAGA++GGAAAAGCAAA+GC++++AC
     290
                       300
                                          310
                                                            320
                                                                                                 340
                                                                                                                    350
                                                                                                                                      340
     350
       ACAACAGACACAGAGTGTGACCTCACCGACGAGATTGTGAAGGATGTGAAGCAGACGTACTTGGCACGGGTC
       ACAACAGACACAGAGTGTGACCTCACCGACGAGATTGTGAAGGATGTGAAGCAGACGTACTTGGCACGGTC
                                                         390
                                                                           400
                                                                                                                420
                    370
                                      380
                                                                                              410
                                                                                                                                   430
       TTCTCCTACCCGGCAGGGAATGTGGAGAGCACCGGTTCTGCTGGGGGAGCCTCTGTATGAGAACTCCCCAGAG
       ++c+cc+accccccagggaatgtggagcaccggttctgctggggagcctctgtatgagaactcccagag
                440
                                  450
                                                     460
                                                                       470
                                                                                          480
                                                                                                             490
                                                                                                                               500
       TTCACACCTTACCTGGAGACAAACCTCGGACAGCCAACAATTCAGAGTTTTGAACAGGTGGGAACAAAAGTG
       ++cAcAcc++Acc+66A6AcAAAcc+c66AcA6ccAACAA++cA6A6++++6AAcA66+666AA6AAAA6+6
            510
                               520
                                                 530
                                                                    540
                                                                                      550
                                                                    600
                                                                                      610
       AATGTGACCGTAGAAGATGAACGGACTTTAGTCAGAAGGAACAACACTTTCCTAAGCCTCCGGGATGTTTTT
       580
                           590
                                             600
                                                                610
                                                                                  620
                                                                670
                                                                                  680
                                                                                                     690
                                             660
       PHYPORIAN PROPERTY OF THE PROP
     650
                       660
                                          670
                                                            680
                                                                                                 700
                                                                                                                    710
                                                                                                                                      720
     710
                                          730
                                                            740
                                                                               750
                                                                                                 760
       ACTAATGAGTTTTTGATTGATGTGGATAAAGGAGAAAACTACTGTTTCAGTGTTCAAGCAGTGATTCCCTCC
```

```
80
              90
                    100
                           110
                                  120
                                          130
                                                 140
                          180
                                 190
                                        200
  GTCGCTCGGACGCTCCTGCTCGGCTGGGTCTTCGCCCAGGTGGCCGGCGCTTCAGGCACTACAAATACTGTG
    150
           160
                   170
                          180
                                        200
                 240
                        250
  GCAGCATATAATTTAACTTGGAAATCAACTAATTTCAAGACAATTTTGGAGTGGGAACCCAAACCCGTCAAT
  230
   220
                 240
                        250
                               540
                                      270
                                              280
  340
  290
  290
         300
                310
                       320
                              330
                                     340
                                            350
                                                   360
                      390
                             400
  GAGTGTGACCTCACCGACGAGATTGTGAAGGATGTGAAGCAGACGTACTTGGCACGGGTCTTCTCCTACCCG
  gycteteteyceteyceyce
       370
              380
                     390
                             400
                                    410
                                           420
                                                  430
                                  480
  GCAGGGAATGTGGAGAGCACCGGTTCTGCTGGGGAGCCTCTGTATGAGAACTCCCCAGAGTTCACACCTTAC
  440
             450
                    460
                           470
                                  480
                                         490
                                                 500
                   530
                          540
                                        560
  CTGGAGACAAACCTCGGACAGCCAACAATTCAGAGTTTTGAACAGGTGGGAACAAAAGTGAATGTGACCGTA
  CTGGAGACAAACCTCGGACAGCCAACAATTCAGAGTTTTGAACAGGTGGGAACAAAAGTGAATGTGACCGTA
                          540
    510
           520
                   530
                                 550
                                        560
   580
                 600
                        610
                               620
                                       630
  GAAGATGAACGGACTTTAGTCAGAAGGAACAACACTTTCCTAAGCCTCCGGGATGTTTTTGGCAAGGACTTA
  580
          590
                 600
                               620
                        610
                                      630
                                              640
                       680
                              690
                                     700
  650
                670
                                            710
         660
  650
         660
                670
                       680
                              690
                                     700
                                            710
  730 740 750 760 770 780 790 TTGATTGATGTGTTCAGGGGTGATTCCCCCCGAACAGTTAAC
  730
              740
                     750
                            760
                                    770
                                           780
                                                  790
  800 810 820 830 840 850 860 CGGAAGAGTACAGACAGCCCGGTAGAGTGTATGGGCCAGGAGAAAGGGGGAATTCAGAGAAATATTCTACATC
  830
      800
             810
                    820
                                  840
                                         850
                                                860
  ATTGGAGCTGTGGTATTTGTGGTCATCATCCTTGTCATCATCCTGGCTATATCTCTACACAAGTGTAGAAAG
  870
           880
                   890
                          900
                                 910
                                        920
                                               930
                 960
                        970
  GCAGGAGTGGGGCAGAGCTGGAAGGAGAACTCCCCACTGAATGTTTCATAA
  dchagaattagagchahacttadhalattactactahttattahhaagaagcactgttgaagctac
          950
                        970
                               980
   940
                 960
                                      990
  TGCAAATGCTATATTGCACTGTGACCGAG
 1010
       1020
              1030
4. FURM-969863-FIG2.SEQ (1-987)
          cDNA of entire human tissue factor apoprotein.
ID
    N92782 standard; cDNA; 2147 BP.
    N92782;
    22-MAY-1990 (first entry)
DT
    cDNA of entire human tissue factor apoprotein.
DE
    Human tissue factor; coagulation system; anticoagulant; ds.
OS
Fu
    Homo sapiens.
               In-stiam/Ansliftame
```

```
650
      ACTAATGAGTTTTTGATTGATGTGGATAAAGGAGAAAACTACTGTTTCAGTGTTCAAGCAGTGATTCCCTCC
                                                                 760
                                                 750
      CGAACAGTTAACCGGAAGAGTACAGACAGCCCGGTAGAGTGTATGGGCCAGGAGAAAGGGGAATTCAGAGAA
      CGAACAC++AACCGGAAGAGAGACAGCCCGG+AGAG+G+A+GGGCCAGGAGAAAAGGGGAA++CAGAGAA
              800
                              810
                                              820
                                                              830
                                                                              840
                                                                                              850
      ATATTCTACATCATTGGAGCTGTGGTATTTGTGGTCATCATCCTTGTCATCATCCTGGCTATATCTCTACAC
                                           890
                                                           900
                                                                           910
                                                                                           920
                                                                                                           930
           870
                          880
                                                           960
      AAGTGTAGAAAGGCAGGAGTGGGGCAGAGCTGGAAGGAGCTCCCCACTGAATGTTTCATAA
      AAGTGTAGAAAGGCAGGAGTGGGGAGAGCTGGAAGGAGAACTCCCCACTGAATGTTTCATAAAGGAAGCAC
                       950
                                       960
                                                       970
                                                                       980
        940
                                                                                        990
                                                                                                      1000
      TGTTGGAGCTACTGCAAATGCTATATTGCACTGTGACCGAG
   1010
                  1020
                                  1030
3. FURM-969863-FIG2.SEQ (1-987)
                        Sequence of human tissue factor protein (TFP) clon
 ID
         N81104 standard; DNA; 2127 BP.
 AC
         N81104;
         19-NOV-1990 (first entry)
Sequence of human tissue factor protein (TFP) clone derived from
 DE
 DE
          adipose cDNA library
         Hybridisation; coagulation; blood clotting; therapy; ds.
 OS
FH
FT
FT
FT
PN
PD
PF
         Homo sapiens.
         Key
                                   Location/Qualifiers
         sig_peptide
/*tag= a
                                  100..195
         mat_peptide
                                   196..987
         /≇tag= b
         EP-278776-A.
         17-AUG-1988.
         12-FEB-1988; 301190
 PR
         7-APR-1987; US-035409,.
 PR
PA
PI
DR
         05-FEB-1988; US-152698.
(GETH) Genentech Inc.
         Lawn RM, Wion KL, Vehar GA;
WPI; 88-229602/33.
P-PSDB; P80504.
        P-PSDB; P80504.

Tissue factor protein and derivs. —
obtd. by recombinant deoxyribonucleic acid techniques, used to
treat chronic bleeding and coagulation—disorders
Claim 4; Fig 2a-2b; 39pp; English.
Tissue factor protein (TFP) free of substances from its natural source is
claimed. TFP administered to provide a coagulation inducing therapeutic
compsn. for various chronic bleeding disorders. Two oligo probes
representing one possible codon choice for each AA of the N-terminal AA
sequence (60 nucleotides) and internal AA sequence near the C-terminal
(81 nucleotides) were designed and sythesised. cDNA clones of human TFP
were obtd. using the DNA probes first to screen a human placental cDNA
library. 1400 BP EcoRI fragment from a placental clone was used to screen
a human adipose cDNA library. The full length human TFP cDNA was contd.
within the cDNA clone lambda TF14. The full length cDNA was inserted into
an expression plasmid and TFP was expressed using mammalian cells (CDS)
cells and E.coli.
 cells and E.coli.
         Sequence
                        2127 BP;
                                            606 A;
                                                           450 C;
                                                                         472 G;
                                  987
                                                                              987
Initial Score
                                          Optimized Score =
                                                                                      Significance = 55.55
                                                                      =
                                                                              987 Mismatches
Residue Identity =
                                 100%
                                          Matches
Gaps
                                      0
                                          Conservative Substitutions
      CTCGCACTCCCTCTGGCCGGCCCAGGGCGCCTTCAGCCCAACCTCCCCAGCCCCACGGGCGCACGGAACCC
      10
                                   50
                                                   30
                                                                                   50
```

```
/#tag= a
      /product=human tissue factor sig_peptide 112..207
FT
FT
FT
FT
FT
FT
      sig_peptide
/#tag= b
      mat_peptide
                      208..996
      /*tag= c
/product=apoprotein
      W08809817-A.
      15-DEC-1988.
08-JUN-1988; U01915.
2-JUN-1986; US-062166.
PD
PF
PR
PA
PA
PI
      14-MAR-1988; US-167870.
      (MOUN-) Mount Sinai Sch Med, (UYYA-) Yale University,
(UYNY-) City Univ New York, (MOUN) Mount Sinai Hosp Res Fdn.
Menerson Y. Konigsberg W;
DR
PT
PT
PS
CC
CC
CC
      WPI: 88-368631/51.
      New recombinant cloning vehicle expressing human tissue factor - encoding DNA sequences, transformed cells and pure apoprotein
      prods
      Disclosure; pp; English.
The fragment encodes a single chain polypeptide preprotein 295
      long. The signal sequence is post translationally cleaved to give a mature protein of 263 amino acids. HTF can be used for inhibiting binding of factor VIII to tissue
CC
      See also N81950-2.
Sequence 2147 BP;
                             613 A;
                                      454 C;
                                               477 G;
SQ
                                                         603 T;
                     987 Optimized Score = 100% Matches =
                                                   987
                                                        Significance = 55.55
Initial Score
                                                   987 Mismatches
Residue Identity =
Gaps
                           Conservative Substitutions
                CTCGCACTCCCTCTGGCCGGCCCAGGGCGCCTTCAGCCCAACCTCCCCAGCCCCACGGGC
    CGGGCGAACCCCCTCGCACTCCCTCTGGCCGGCCCCAGGGCGCCTTCAGCCCAACCTCCCCAGCCCCACGGGC
                                          100
    90
    80
                           100
                                        110
                                                  120
                                                                       140
    CCCGAGACCGCCGTCGCTCGGACGCTCCTGCTCGGCTGGGTCTTCGCCCAGGTGGCCGGCGCCTTCAGGCACT
       150
                 160
                            170
                                      180
                                                190
    ACAAATACTGTGGCAGCATATAATTTAACTTGGAAATCAACTAATTTCAAGACAATTTTGGAGTGGGAACCC
    550
               230
                         240
                                    250
                                              260
    AAACCCGTCAATCAAGTCTACACTGTTCAAATAAGCACTAAGTCAGGAGATTGGAAAAGCAAATGCTTTTAC
    AAACCCGTCAATCAAGTCTACACTGTTCAAATAAGCACTAAGTCAGGAGATTGGAAAAGCAAATGCTTTTAC
                                  320
                                            330
    ÄČAACAGACĀČĀGAGTGTGĀCČTCACCGAČĢĀGATTGTGĀĀGGATGTGAĀĢČAGĀCGTĀCŢTGGCACĢĢĢTČ
    ACAACAGACACAGAGTGTGACCTCACCGACGAGAGTTGTGAAGGATGTGAAGCAGACGTACTTGGCACGGGTC
           370
                                390
                     380
                                          400
                                                     410
                                                               420
                                450
    TTCTCCTACCCGGCAGGGAATGTGGAGAGCACCGGTTCTGCTGGGGAGCCTCTGTATGAGAACTCCCCAGAG
    +tc+cctacccggcaggaatgtggaggcaccggttctgctggggagcctctgtatgagaactcccagag
         440
                   450
                                                             490
                                                                        500
                              460
                                        470
                                                   480
    TTCACACCTTACCTGGAGACAAACCTCGGACAGCCAACAATTCAGAGTTTTGAACAGGTGGGAACAAAAGTG
    510
                 520
                            530
                                      540
                                                 550
                                      600
    AATGTGACCGTAGAAGATGAACGGACTTTAGTCAGAAGGAACAACACTTTCCTAAGCCTCCGGGATGTTTTT
    580
                         600
                                   610
                                    670
                         660
                                              680
```

```
500
   GCTGGGTCTTCGCCCAGGTGGCCGGCGCTTCAGGCACTACAAATACTGTGGCAGCATATAATTTAACTTGGA
     230
                      240
                                      250
                                                       260
                                                                        270
                                                    270
                                                                     280
                                   590
   330
 300
                                                 340
                                                                  350
                                                                                   360
                                330
   GCACTAAGTCAGGAGATTGGAAAAGCAAATGCTTTTACACAACAGACACAGAGTGTGACCTCACCGACGAGA
   380
                               390
                                                 400
                                                                 410
                                                                                   420
                                                                                                   430
                                                                                                                    440
   390 400 410 420 430 440 450 TTGTGAAGGATGTGAAGCAGACGTACTTGGCACGGGTCTTCTCCTACCCGGCAGGGAATGTGGAGGACCCG
   ++6+6AA66A+6+6AA6CA6ACC+AC++66CAC66G+C++C+CC+ACCC6GCAAC6AA+C+6GAAGACACC6
                                             470
                                                              480
                                                                               490
                                                           490
   GTTCTGCTGGGGAGCCTCTGTATGAGAACTCCCCAGAGTTCACACCTTACCTGGAGACAAACCTCGGACAGC
   520
                        530
                                         540
                                                          550
                                                                            560
                                                                                            570
                                                                                                              580
   530 540 550 560 570 580 590 CAACAATTCAGAGGTTTTGAACAGGTGGGAACAAAAGTGAATGTGACCGTAGAAGATGAACGGACTTTAGTCA
   620
                                                                        630
   GAAGGAACAACACTTTCCTAAGCCTCCGGGATGTTTTTGGCAAGGACTTAATTTATACACTTTATTATTGGA
   $\delta \delta \
 660
                  670
                                  680
                                                690
                                                                  700
                                                                                   710
   760
                                                                 770
                                                                                  780
                                                                                                   790
                                                                                                                    800
                               750
   810
                            820
                                             830
                                                              840
                                                                               850
   820 830 840 850 860 870 880 TAGAGTGTATGGGCCAGGAGAAAGGGGGAATTCAGAGAAATATTCTACATCATTGGAGCTGTGGTATTTGTGG
   880
                        890
                                          900
                                                          910
                                                                            920
                                                                                             930
                                                                                                              940
                                                       920
   TCATCATCCTTGTCATCCTGGCTATATCTCTACACAAGTGTAGAAAGGCAGGAGTGGGGCAGAGCTGGA
   +CA+CA+CC++G+CA+CA+CC+GGC+A+A+C+C+ACAAC+G+AGAAAGGCAGAGAG+GGGGAGAGC+GGA
     950
                     960
                                      970
                                                       980
                                                                        990
                                                                                        1000
 960
                  970
                                  980
   AGGAGAACTCCCCACTGAATGTTTCATAA
   AGGAGAACTCCCCACTGAATGTTTCATAAAGGAAGCACTGTTCGAGCTACTGCAAATGCTATATTGCACTGT
1020
                1030
                                1040
                                                  1050
                                                                  1060
                                                                                    1070
   GACCGAG
```

2. FURM-969863-FIG2.SEQ (1-987) N81953 Encodes human tissue factor

```
N81953 standard; cDNA; 2147 BP.
ID
AC
      N81953;
DT
      22-0CT-1990 (first entry)
      Encodes human tissue factor
human tissue factor (HTF) apoprotein; procoagulant;
Factor VIII; ss.
DE
KW
OS
      synthetic.
FH
      Key
                           Location/Qualifiers
```

```
11. 020269
                        Gene encoding AE-III (peptidu
                                                                  3383
                        DHFR-APP fusion protein (pBBR Sequence encoding 53 kD cellu Encodes E-cadherin from dog k
  12. 025107
                                                                  4670
                                                                           112
                                                                                          5.34
                                                                                                   0
                                                                                  416
   13. 022995
                                                                  1182
                                                                           110
                                                                                   420
                                                                                          5.22
                                                                                   432
                                                                                          5.22
  14. 011563
                                                                           110
                                                                  4333
                                                                                  432
                                                                                                   0
  15. 039967
                        PKC-alpha cDNA.
                                                                  3305
                                                                           107
                                                                                          5.05
   16. N40141
                        Sequence of human factor IX g
Sequence of human factor IX g
                                                                                          5.05
5.05
                                                                           107
                                                                                   402
                                                                11866
  17. N40176
                                                                           107
                                                                                  401
                                                                                                   0
                                                                11873
                         **** 4 standard deviations above mean ****
                        Interferon-pseudo-omega-2.
Non-receptor linked protein t
                                                                                          4.94
  18.
       N90505
                                                                           105
                                                                                   420
                                                                  2132
                                                                                  385
       013802
                                                                  2287
                                                                           105
                        Maize C3 sequence encoding ac
BamHI J-I fragment carrying s
BamHI J-I fragment carrying s
  20. 003661
                                                                  2546
                                                                           105
                                                                                  421
                                                                                          4.94
                                                                                  395
395
                                                                  2721
                                                                                          4.88
                                                                                                   0
                                                                           104
  21. 010543
  22. 010212
23. N50525
                                                                  2721
                                                                           104
                                                                                          4.88
                                                                  3756
                                                                                  422
259
                        Bacillus thuringiensis var. i
                                                                           104
                                                                                          4.88
                                                                   920
  24. 032366
                        MAGE-10 genomic DNA.
                                                                           102
                                                                                          4.76
                        Recombinant plasmid pMP1 cont
Sequence of LAV/HTLV III gag
Sequence of ARV-2 cloned in p
  25.
       N81341
                                                                  4133
                                                                           102
                                                                                  409
                                                                                          4.76
       N71017
                                                                                  431
                                                                  5340
                                                                           102
  26.
                                                                                          4.76
  27. N60142
                                                                  2467
                                                                           101
                                                                                  324
                                                                                          4.71
  28. 931938
29. 913673
                        p41 gag gene (fusion of p25 g
SUP-B27 t(1;19) translocation
                                                                                  323
422
                                                                                          4.65
4.59
                                                                  2467
                                                                           100
                                                                  2837
                                                                            99
  30. 013675
                        E2A/pr1 fusion transcript fro
                                                                  2922
                                                                                   421
                                                                                          4.59
                        pTK gene HpTK5.
Sequence encoding an antibody
                                                                            99
                                                                                  409
  31. 049757
                                                                  3969
                                                                                          4.59
                                                                  1657
7294
                                                                                          4.53
4.53
  32. 045503
                                                                            98
                                                                                  356
  33. 024174
                        M131X421.
                                                                                  415
                                                                                          4.53
4.53
4.48
   34. 024172
                        M131X30.
                                                                  7445
                                                                            98
                                                                                  414
                                                                                  428
354
  35.
       014752
                        HIV-1(MN-ST1) env protein-enc
                                                                  9746
                                                                            98
  36. 012528
                                                                            97
                        Thymidylate phosphohydrolase.
                                                                  1611
                        PT42 promoter and 5' gene por M131X22.
  37. 027487
                                                                  2370
                                                                            97
                                                                                  382
                                                                                          4.48
  38. 024171
                                                                  7320
                                                                                  411
                                                                                          4.48
  39. 033150
                                                                                  243
                        CAT-LacZ alpha-peptide trans-
                                                                   623
                                                                                          4.42
  40. 027243
                                                                   623
                                                                                  243
                        CAT-LacZ alpha-peptide trans-
1. FURM-969863-FIG2.SEQ (1-987)
                    Thromboplastin clone 2b-Apr5.
       020349 standard; cDNA; 2189 BP.
 ID
 AC
       020349;
       09-APR-1992 (first entry)
Thromboplastin clone 2b-Apr5.
 DT
 DE
 KW
       Thromboplastin; Ig; fusion protein; ss.
 OS
       Homo sapiens.
 FH
       Key
CDS
                            Location/Qualifiers
                            160..1044
 FT
        /*tag=
        /labél= thromboplastin
 PN
       EP-464533-A.
 PD
       08-JAN-1992.
       24-JUN-1991; 110368.
28-JUN-1990; DE-020607
 PF
 PR
 PA
        (BEHW ) BEHRINGWERKE AG.
 PA
PI
        (GEHO-) GENERAL HOSPITAL CORP.
       Lauffer L. Oquendo P. lettlmeiss G. Seed B;
 DR
       WPI; 92-009794/02.
 PT
PT
       Soluble fusion protein useful in treatment or diagnosis - contg.
       immunoglobulin constant region and e.g. thromboplastin, cytokine or receptor, expressed in mammalian cells
Disclosure; Fig 2; 2ipp; German.
Based on the thromboplastin DNA sequence published by Scarpati et al., Biochemistry, Bd. 26 (1987), 5234-5238, two oligonucleotide probes are derived (020350-51). A human placenta cDNA bank is screened.
       Several clones are obtained and clone 2b-Apr5 is isolated. The derived
       amino acid sequence is as described by Scarpati et al.
See also 020349-57.
 CC
                     2189 BP;
       Sequence
                                     617 A;
                                                  470 C;
                                                               487 G;
                                                                            615 T;
                            987
Initial Score
                                  Optimized Score =
                                                                     Significance = 55.55
Residue Identity
                           100%
                                                               987
                                  Matches
                                                                     Mišmatches
                              0
                                  Conservative Substitutions
Gaps
                                                                     CTCGCACTCCCTCTGGCCGGCC
     50
                                         40
                                                      50
                                                                                             80
     CAGGGCGCCTTCAGCCCAACCTCCCCAGCCCCACGGGCGCCACGGAACCCGCTCGATCTCGCCGCCAACTGG
     CAGGGGCC++CAGCCCAACC+CCCAGCCCCACGGGCCAACGGAACCCGC+CGA+C+CGACCCAAC+GG
                                                                            140
                        100
                                     110
                                                  120
                                                               130
                                                                                         150
                                                            140
     TAGACATGGAGACCCCTGCCTGGCCCCGGGTCCCGCGCCCCGAGACCGCCGTCGCTCGGACGCTCCTGCTCG
```

170

180

190

200

210

```
Hartzell, S.; Ryder, K.; Lanahan, A.; Lau, L.F.; Nathans, D. Mol. Cell. Biol. (1989) 9:2567-2573
    #authors
    #journal
    $title
                    A growth factor-responsive gene of murine BALB/c 3T3 cells
    encodes a protein homologous to human tissue factor. #cross-references MVID:89343974
                    A32318
    #accession
        ##molecule_type mRNA
                         1-294 ##label HAR
        ##residues
        ##cross-references GB:M26071
 REFERENCE
                    A39046
                    Ranganathan, G.; Blatti, S.P.; Subramaniam, M.; Fass, D.N.;
    #authors
                      Maihle, N.J.; Getz, N.J.
                      . Biol. Chem. (1991) 266:496-501
    #journal
                    Cloning of murine tissue factor and regulation of gene
    #title
    expression by transforming growth factor type betal. #cross-references MUID:91093171
    #accession
                    A39046
       ##molecule_type mRNA
##residues 1-25,'I',27-294 ##label RAN
        ##cross-references GB:J05713
                         26-Thr was also found
       ##note
             Tissue factor is an integral membrane glycoprotein that serves as a receptor for plasma coagulation factor VIIa. The complex
 COMMENT
               initiates the extrinsic coagulation pathway.
             Expression of tissue factor can be induced in a variety of tissues by certain growth factors and inflammatory stimuli.
 COMMENT
                    #superfamily tissue factor
blood coagulation; glycoprotein; membrane protein
 CLASSIFICATION
 KEYWORDS
 FEATURE
                          #domain signal sequence #status predicted #label SIG #protein tissue factor #status predicted #label MAT
    1-29
    30-294
                          #domain extracellular #status predicted #label EXT
    30-251
    252-274
                          #domain transmembrane #status predicted #label TMM
                          #disulfide bonds #status predicted
#binding_site carbohydrate (Asn) (covalent) #status
    75-83,218-241
    37,57,169,200
                            predicted
    275
                          #binding_site fatty acid (Cys) (covalent) #status
                            experimental
                    #length 294 #molecular-weight 32923 #checksum 9197
 SUMMARY
 SEQUENCE
                                                       219
                         87
                                                             Significance = 5.50
Initial Score
                              Optimized Score =
Residue Identity =
                         52%
                              Matches
                                                       158
                                                             Mismatches
                                                                                114
Gaps
                         13
                              Conservative Substitutions
                                    30
                                                                      60
    METPAWPRVPRPETAVARTLLLGWVFA@VAGASGTTNTVAAYNLTWKSTNFKTILEWEPKPVN@VYTV@IST
                  -AALAPT-FLGCLLLQVTÄGÄGIPEK--ÄFNLTWISTDFKTILEWQPKPTNYTYTVQISD
             10
                             20
                                        30
                                                      40
                                                                 50
                                                                             60
    80 70 100 110 120 130 KSGDWKSKCFYTTDTECDLTDEIVKDVKGTYLARVFSYP-AGNVESTGS----AGEPLYENSPEFTPYLET
    RSRNWKNKCFSTTDTECDLTDEIVKDVTWAYEAKVLSVPRRNSVHGDGDGLVIHGEEPPFTNAPKFLPYRDT
      70
                                       100
                                                   110
                                                              120
                                                                         130
    NLGOPTIOSFEOVGTKVNVTVEDERTLVRRNNTFLSLRDVFGKDLIYTLYYMKSSSSGKKTAKTNTNEFLID
    NLGOPVIOOFEODGRKLNVVVKDSLTLVRKNGTFLTLROVFGKDLGYIITVRKGSSTGKKTNITNTNEFSID
   140
              150
                                                180
                         160
                                     170
                                                            190
                                                                       200
                                                                                   210
                                   240
    VDKGENYCFSV@AVIPSRTVNRKSTDSPVECMG@EKGEFREIFYIIGAVVFVVIILVIILAISLHKCRKAGV
    VEEGVSYCFFVQAMIFSRKTNONSPGSSTVCTEGWKSFLGETLIIVGAVVLLATIFIILLSISLCKRRKNRA
            550
                                   240
                                              250
    GOSWKENSPLNVS
    ĠĠĸĠĸĸĸŤPSRLA
           290
8. FURM-969863-FIG2.PEP (1-295)
                 fusion glycoprotein - Newcastle disease virus (str
   VGNZU1
 ENTRY
                                #tupe complete
                    fusion glycoprotein - Newcastle disease virus (strain Ulster)
 TITLE
                    ORGANISM
 DATE
                    30-Jun-1993
A29823
 ACCESSIONS
                    A92799
 REFERENCE
                    Millar, N.S.; Chambers, P.; Emmerson, P.T.
    #authors
```

```
10SFE0VGTKVNVTVEDERTLVRRNNTFLSLRDVFGKDL1YTLYY#KSSSSGKKTAKTNTNEFL1DVDKGEN
    10SFEQUETKLNVTVQDARTLVRRNETFLSLRAVFEKDLNVTLVVMRASSTEKKTATTNTNEFLIDVDKEN
                    160
         150
                                                     190
                                                               500
                                                                          210
                               170
                                          180
    220 230 240 250 260 270 280 YCFSVQAVIPSRTVNRKSTDSPVECMGQEKGEFREIFYIIGAVVFVVIILVIILAISLHKCRKAGVGQSWKE
    YCFSV@AVIPSRKRK@RSPESLTECTSRE@GRAREMFFIIGAVV-VVALLIIVLSVTVYKCRKARAGPSGKE
       550
                  230
                             240
                                        250
                                                    260
                                                              270
   290
    NSPLNVS
    SSPLNIA
      290 X
6. FURM-969863-FIG2.PEP (1-295)
   S23681
                 tissue factor - rabbit
 ENTRY
                   S23681
                               #type complete
                   tissue factor - rabbit
 TITLE
                   #formal_name Oryctolagus cuniculus #common_name domestic_rabbit
 ORGANISM
                   22-Nov-1993; #sequence_revision 22-Nov-1993; #text_change
 DATE
                     22-Nov-1993
 ACCESSIONS
                   523681
                   523681
 REFERENCE
    #authors
                   Pawashe, A.; Ezekowitz, M.; Lin, T.C.; Horton, R.; Bach, R.;
                     Konigsberg, ₩.
    #journal
                   Thromb. Haemost. (1991) 66:315-320
    #title
                   Molecular cloning, characterization and expression of cDNA
    for rabbit brain tissue factor. #cross-references MUID:92081032
                   523681
    #accession
                        preliminary
1-260_##label_PAW
       ##status
       ##residues
       ##cross-references EMBL:X53521
 SUMMARY
                   #length 260 #molecular-weight 29312 #checksum 2601
 SEQUENCE
Initial Score
                       209
                            Optimized Score =
                                                     229
                                                          Significance = 5.88
                                                     186
Residue Identity =
                       71%
                            Matches
                                                          Mismatches
Gaps
                            Conservative Substitutions
    METPAWPRVPRPETAVARTLLLGWVFAQVAGASGTTNTVAAYNLTWKSTNFKTILEWEPKPVNQVYTVQIST
                                         ADTTGRAYNLTWKSTNFKTILEWEPKSIDHVYTVQIST
                                                 10
                                                            20
                               100
                                          110
                                                     120
                                                               130
    KSGDWKSKCFYTTDTECDLTDEIVKDVK@TYLARVFSYPAGNVESTGSAGEPLYENSPEFTPYLETNLG@PT
    RLENWKSKCFLTAETECDLTDEVVKDVGGTYMARVLSYPARNGNTTGFPEEPPFRNSPEFTPYLDTNLGGPT
                                                          90
    40
               50
                         60
                                    70
                                                                    100
                                                                               110
                                                   190
                            170
                                        180
                                                              200
    10SFE0VGTKVNVTVEDERTLVRRNNTFLSLRDVFGKDL1YTLYYWKSSSSGKKTAKTNTNEFL1DVDKGEN
    I OSFEQVCTKLNYTVQDARTLYRRNGTFLSLRAVFGKDLNYTLYYWRASSTGKKTATTNTNEFLIDVDKGEN
           120
                      130
                                 140
                                            150
                                                                             180
                                                590
    YCFSV@AVIPSRTVNRKSTDSPVECMG@EKGEFREIFYIIGAVVFVVIILVIILAISLHKCRKAGVG@SWKE
    YCFSV@AYIPSRKRK@RSPESLTECTSREGGRAREMFFIIGAVV-VVALLIIVLSVTVYKCRKARAGPSGKE
         190
                    200
                               510
                                          220
                                                                 240
                                                      230
   290
    NSPLNVS
    IIII::
SSPLNIA
        260
7. FURM-969863-FIG2.PEP (1-295)
   KFMS3
                 tissue factor precursor - mouse
 ENTRY
                               #type complete
                   KFMS3
                   tissue factor precursor - mouse
 TITLE
 ALTERNATE_NAMES
                   coagulation factor III
                   #formal name Mus musculus #common_name house mouse 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change
 ORGANISM
 DATE
                     30-Sep-1993
 ACCESSIONS
                   A32318; A39046
```

```
100
    KSGDWKSKCFYTTDTECDLTDEIVKDVKGTYLARVFSYPAGNVESTGSAGEPLYENSPEFTPYLETNLGGPT
    90
                               100
          80
                                          110
                                                        120
                                                                   130
                                        180
    IOSFEOVGTKVNVTVEDERTLVRRNNTFLSLRDVFGKDLIYTLYYWKSSSSGKKTAKTNTNEFLIDVDKGEN
    170
                                                      190
                                                                 200
          150
                     160
                                           180
                                                                            210
                           240
                                      250
                                                 260
    YCFSV@AVIPSRTVNRKSTDSPVECMG@EKGEFREIFYIIGAVVFVVIILVIILAISLHKCRKAGVG@SWKE
    YCFHVOAVILSRRVNOKSPESPIKCTSHEKVLSTELFFIIGTVMLVIIIFIVVLSVSLHKCRKVRAERSGKE
                              240
                                         250
                                                    260
        220
                                                               270
   290
    NSPLNVS
    I III :
NTPLNAA
      290 X
5. FURM-969863-FIG2.PEP (1-295)
   KFRB3
                 tissue factor precursor - rabbit
 ENTRY
                   KFRB3
                               #type complete
                   tissue factor precursor
                                              - rabbit
 ALTERNATE_NAMES
                   coagulation factor III
 ORGANISM
                   #formal_name Oryctolagus cuniculus #common_name domestic
                   30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 30-Sep-1993
 DATE
                    JU0441
 ACCESSIONS
 REFERENCE
                   JU0441
                   Andrews, B.S.; Rehemtulla, A.; Fowler, B.J.; Edgington, T.S.;
    #authors
                     Mackman, N.
                   Gene (1991) 98:265-269
    # iournal
    #title
                   Conservation of tissue factor primary sequence among three
                     mammalian species.
    #cross-references MUID:91200676
    #contents
                   brain
                   JU0441
    #accession
        ##molecule_type mRNA
       ##residues
                        1-292 ##label AND
       ##cross-references GB:M55390
             Tissue factor is an integral membrane glycoprotein that serves as a receptor for plasma coagulation factor VIIa. The complex
 COMMENT
               initiates the extrinsic coagulation pathway.
             Expression of tissue factor can be induced in a variety of tissues by certain growth factors and inflammatory stimuli.

ION #superfamily tissue factor blood coagulation; glycoprotein; membrane protein
 COMMENT
 CLASSIFICATION
 KEYWORDS
 FEATURE
    1-32
                         #domain signal sequence #label SIG
#protein tissue factor #label MAT
    33-292
33-249
                         #domain extracellular #status predicted #label EXT
#domain transmembrane #status predicted #label TMM
    250-271
    272-292
                         #domain intracellular #status predicted #label INT
    79-87,216-239
                         #disulfide_bonds #status predicted
    41,114,154,167,
    182
                         #binding_site carbohydrate (Asn) (covalent) #status
                           predicted
    274
                         #binding site fatty acid (Cus) (covalent) #status
                           experimental
 SUMMARY
                   #length 292 #molecular-weight 32738 #checksum 1871
 SEQUENCE
                        209
Initial Score
                            Optimized Score =
                                                     254
                                                           Significance =
Residue Identity =
                        69%
                             Matches
                                                     506
                                                           Mismatches
                                                                              67
                             Conservative Substitutions
Gaps
    METPAMPRVPRPETAVARTILLGMVFA@VAGASGTTNTVAAYNLTMKSTNFKTILEMEPKPVN@VYTV@IST
    MAPPTRLOVPRPGTAVPYTVLLGWLLAGVARAADTTGR--AYNLTWKSTNFKTILEWEPKSIDHVYTVOIST
                                   30
             10
                       20
                                                40
                                                           50
                                                                      60
    KSGDWKSKCFYTTDTECDLTDEIVKDVKGTYLARVFSYPAGNVESTGSAGEPLYENSPEFTPYLETNLGGPT
    RLENWKSKCFLTAETECDLTDEVVKDVGGTYMARVLSYPARNGNTTGFPEEPPFRNSPEFTPYLDTNLGGPT
                       90
                                 100
                                            110
                                                       120
                                                                  130
```

```
295 Mismatches
Residue Identity =
                                O Conservative Substitutions
     METPAWPRVPRPETAVARTLLLGWVFAGVAGASGTTNTVAAYNLTWKSTNFKTILEWEPKPVNGVYTVGIST
     #ETPAWPRVPRPETAVARTILLIGWVFAGVAGASGTTNTVAAYNLTWKSTNFKTILEWEPKPVNGVYTV@IST
               10
                             20
                                           30
                                                         40
     KSGDWKSKCFYTTDTECDLTDEIVKDVK@TYLARVFSYPAGNVESTGSAGEPLYENSPEFTPYLETNLG@PT
                                       100
                                                    110
                                                                  120
                                                                                130
     IOSFEGVGTKVNVTVEDERTLVRRNNTFLSLRDVFGKDLIYTLYYWKSSSSGKKTAKTNTNEFLIDVDKGEN
     10sfe0vgtkvnvtvedertlvrrnntflslrdvfgkdlivtlyvukssssgkktaktnineflidvdkgen
                                                               190
         150
                      160
                                    170
                                                 180
                                                                             200
                                                                                           210
     220 230 240 250 260 270 280 YCFSVQAVIPSRTVNRKSTDSPVECMGQEKGEFREIFYIIGAVVFVVIILVIILAISLHKCRKAGVGQSWKE
     YCFSV@AVIPSRTVNRKSTDSPVECMG@EKGEFREIFYIIGAVVFVVIILVIILAISLAKCRKAGVG@SWKE
                                               250
                                                            260
    290
     NSPLNVS
     ||||||
|NSPLNVS
    290
4. FURM-969863-FIG2.PEP (1-295)
                     tissue factor precursor - bovine
                                       #type complete
 TITLE
                        tissue factor precursor - bovine
 ALTERNATE_NAMES
                       coagulation factor III
                       #formal name Bos primigenius taurus #common name cattle
30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change
30-Sep-1993
 ORGANISM
 DATE
 ACCESSIONS
                        J@1319
 REFERENCE
                        J@1319
                       Takayenoki, Y.; Muta, T.; Miyata, T.; Iwanaga, S.
Biochem. Biophys. Res. Commun. (1991) 181:1145-1150
cDNA and amino acid sequences of bovine tissue factor.
     #authors
     #journal
     #title
     #cross-references MUID:92109720
                        Adrenal gland
     #contents
     #accession
                        J@1319
         ##molecule_type mRNA
                              1-292 ##label TAK
         ##residues
         ##cross-references GB:S74147
               e part of this sequence, including the amino end of the mature protein, was confirmed by protein sequencing Tissue factor is an integral membrane glycoprotein that serves as a receptor for plasma coagulation factor VIIa. The complex
         ##note
 COMMENT
               initiates the extrinsic coagulation pathway.

Expression of tissue factor can be induced in a variety of tissues by certain growth factors and inflammatory stimuli.
 COMMENT
 CLASSIFICATION
                       #superfamily tissue factor
 KEYWORDS
                        blood coagulation; glycoprotein; membrane protein
 FEATURE
     1-35
                               #domain signal sequence #label SIG
                               #protein tissue factor #status experimental #label MAT
#domain extracellular #status predicted #label EXT
     36-292
     36-248
                              #domain transmembrane #status predicted #label TMM #domain intracellular #status predicted #label INT #disulfide bonds #status predicted #label INT #bisulfide bonds #status predicted #binding site carbohydrate (Asn) (covalent) #status
     249-271
     272-292
     81-89,215-238
     43,153,181
                                 predicted
     118,124
                               #binding_site carbohydrate (Thr) (covalent) #status
                                 predicted
     274
                               #binding_site fatty acid (Cys) (covalent) #status
                        experimental #length 272 #molecular-weight 32475 #checksum 1836
 SUMMARY
 SEQUENCE
                                                                         Significance = 6.92
Initial Score
                                  Optimized Score =
                                                                  204 Mismatches
Residue Identity =
                             69% Matches
                                  Conservative Substitutions
Gaps
     METPAWPRVPRPETAVARTLLLGWVFAQVAGASGTTNTVAAYNLTWKSTNFKTILEWEPKPVNQVYTVQIST
     MATPNGPRVPCPGAAVARALLFGLVLIGGACVÄGTTDVVVAYNITUKSTNFKTILEWEPKPINHVYTVGISP
```

100% Matches

```
290
    NSPLNVS
    NSPLNVS
   290
3. FURM-969863-FIG2.PEP (1-295)
   KFHU3
                  tissue factor precursor - human
ENTRY
                    KFHU3
                                 #type complete
 TITLE
                    tissue factor precursor - human
 ALTERNATE_NAMES
                    coagulation factor III
ORGANISM
                    #formal name Homo sapiens #common name man
                    30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 03-Feb-1994
DATE
 ACCESSIONS
                    A28320; A29062; A29672; A29008
                    A94171
REFERENCE
    #authors
                    Spicer, E.K.; Horton, R.; Bloem, L.; Bach, R.; Williams,
K.R.; Guha, A.; Kraus, J.; Lin, T.C.; Nemerson, Y.;
                       Konigsberg, W.H.
                    Proc. Natl. Acad. Sci. U.S.A. (1987) 84:5148-5152
Isolation of cDNA clones coding for human tissue factor:
    # iournal
    #title
                      primary structure of the protein and cDNA.
    #cross-references MUID:87260946
    #accession
                    A28320
        ##molecule_type mRNA
                          1-295 ##label SPI
        ##residues
        ##cross-references GB:J02931
REFERENCE
                    A29062
    #authors
                    Morrissey, J.H.; Fakhrai, H.; Edgington, T.S.
Cell (1987) 50:129-135
    #journal
    #title
                    Molecular cloning of the cDNA for tissue factor, the cellular
                      receptor for the initiation of the coagulation protease
                      cascade.
    #cross-references MUID:87244317
    #accession
                    A29062
       ##molecule_type mRNA
                         1-295 ##label MOR
       ##residues
       ##cross-references GB:J02931
                          part of this sequence, including the amino end of the
       ##note
                            mature protein, was confirmed by protein sequencing
REFERENCE
                    Scarpati, E.M.; Wen, D.; Broze Jr., G.J.; Miletich, J.P.; Flandermeyer, R.R.; Siegel, N.R.; Sadler, J.E. Biochemistry (1987) 26:5234-5238
    #authors
    # journal
                    Human tissue factor: cDNA sequence and chromosome
    #Litle
                       localization of the gene.
    #cross-references MUID:88050796
    #accession
                    A29672
       ##molecule_type mRNA
                         1-259,'A',261-295 ##label SCA
       ##residues
        ##cross-references GB:M16553
REFERENCE
                    A37422
                    Bach, R.; Konigsberg, W.H.; Nemerson, Y.
Biochemistry (1988) 27:4227-4231
    #authors
    #journal
    #title
                    Human tissue factor contains thioester-linked palmitate and
                    stearate on the cytoplasmic half-cystine.
annotation; disulfide bonds and fatty acid binding site
    #contents
COMMENT
             Tissue factor is an integral membrane glycoprotein that serves as a
               receptor for plasma coagulation factor VIIa. The complex
                initiates the extrinsic coagulation pathway.
             Expression of tissue factor can be induced in a variety of tissues
COMMENT
               by certain growth factors and inflammatory stimuli.
 GENETICS
                    GDB:F3
    #gene
#map position 1p22-p21
CLASSIFICATION #superfa
                    #superfamily tissue factor
 KEYWORDS
                    blood coagulation; glycoprotein; lipoprotein; membrane
                      protein
 FEATURE
    1-32
                          #domain signal sequence #status experimental #label SIG
                          #protein tissue factor #status experimental #label MAT
    33-295
                          #domain extracellular #status predicted #label EX
    33-251
    252-274
275-295
                          #domain transmembrane #status predicted #label TMM
#domain intracellular #status predicted #label INT
    81-89,218-241
                          #disulfide_bonds #status experimental
                          #binding_site carbohydrate (Asn) (covalent) #status
                            experimental
    156,169
                          #binding_site carbohydrate (Asn) (covalent) #status
                            predicted
    277
                          #binding_site_fatty_acid (Cys) (covalent) #status
                            experimental
 SUMMARY
                    #length 295 #molecular-weight 33067 #checksum 4014
 SEQUENCE
                        295 Ontinized Score =
Initial Score
                                                        295 Significance = 8.33
```

```
SEQUENCE
Initial Score
                        295 Optimized Score =
                                                      295 Significance = 8.33
Residue Identity =
                       100% Matches
                                                      295 Mismatches
                          O Conservative Substitutions
                                                                                 0
Gaps
    METPAWPRVPRPETAVARTLLLGWVFAQVAGASGTTNTVAAYNLTWKSTNFKTILEWEPKPVNQVYTVQIST
             10
                        50
                                   30
                                               40
                                                                     60
    80 90 100 110 120 130 140 KSGDWKSKCFYTTDTECDLTDEIVKDVKGTYLARVFSYPAGNVESTGSAGEPLYENSPEFTPYLETNLG@PT
    KSGDWKSKCFYTTDTECDLTDEIVKDVKGTYLARVFSYPAGNVESTGSAGEPLYENSPEFTPYLETNLGGPT
                      90
                                100
                                           110
                                                      120
                                                                 130
    10SFE0VGTKVNVTVEDERTLVRRNNTFLSLRDVFGKDL1YTLYYWKSSSSGKKTAKTNTNEFL1DVDKGEN
    10SFEQVGTKVNVTVEDERTLVRRNNTFLSLRDVFGKDL1VTLVYWKSSSSGKKTAKTNTNEFL1DVDKGEN
                                                    190
                                                                          210
       150
                                                               200
                  160
                              170
                                         180
    220 230 240 250 260 270 280 YCFSVQAVIPSRTVNRKSTDSPVECMGQEKGEFREIFYIIGAVVFVVIILVIILAISLHKCRKAGVGQSWKE
    YCFSVGAVIPSRTVNRKSTDSPVECMGGEKGEFREIFYIIGAVVFVVIILVIILAISLHKCRKAGVGGSHKE
     220
                                      250
                                                             270
   290
    NSPLNVS
    |||||||
|NSPLNVS
   290
2. FURM-969863-FIG2.PEP (1-295)
   A43645
                 tissue factor - human
                    A43645 #type complete tissue factor - human #formal name Homo sapiens #common_name man 03-Nar-1993 #sequence_revision 03-Nar-1993 #text_change
 ENTRY
 TITLE
 ORGANISM
 DATE
                    30-Sep-1993
A43645
 ACCESSIONS
 REFERENCE
                    A43645
                   Mackman, N.; Morrissey, J.H.; Fowler, B.; Edgington, T.S. Biochemistry (1989) 28:1755-1762
    #authors
     #journal
                    Complete sequence of the human tissue factor gene, a highly regulated cellular receptor that initiates the coagulation
    #title
                      protease cascade.
                    A43645
    #accession
        ##status
                         preliminary
        ##molecule_type DNA
                        1-295 ##label MAC
        ##residues
        ##cross-references GB:J02844; GB:J02846
 SUMMARY
                    #length 295 #molecular-weight 33067 #checksum 4014
 SEQUENCE
                        295 Optimized Score =
                                                      295
                                                           Significance = 8.33
Initial Score
                                                      295 Mišmatches
Residue Identity =
                       100%
                             Matches
Gaps
                             Conservative Substitutions
                                   30
                                               40
    METPAWPRVPRPETAVARTLLLGWVFA@VÄGASGTTNTVÄÄYNLTWKSTNFKTILEWEPKPVN@VYTV@IST
    METPAWPRVPRPETAVARTLLLGWVFAGVAGASGTTNTVAAYNLTWKSTNFKTILEWEPKPVNGVYTVGIST
             10
                        20
                                   30
                                              40
                                                                     60
    80 70 100 110 120 130 140 KSGDWKSKCFYTTDTECDLTDEIVKDVK@TYLARVFSYPAGNVESTGSAGEPLYENSPEFTPYLETNLG@PT
    .
KSGDWKSKCFYTTDTECDLTDEIVKDVKGTYLARVFSYPAGNVESTGSAGEPLYENSPEFTPYLETNLGGPT
           80
                      90
                                100
                                           110
                                                      120
                                                                 130
                                                                             140
                                         180
    150
                  160
                              170
                                         180
                                                    190
                                                               200
                                                                          210
    YCFSVQAVIPSRTVNRKSTDSPVECMGQEKGEFREIFYIIGAVVFVVIILVIILAISLHKCRKAGVGQSWKE
    YCFSVGAVIPSRTVNRKSTDSPVECMGGEKGEFREIFYIIGAVVFVVIILVIILAISLHKCRKAGVGGSWKE
```

#length 295 #molecular-weight 33067 #checksum 4014

SUMMARY

Scores: Mean 71 Standard Deviation Median 26.89 126

CPU Times: 00:01:53.98 Total Elapsed 00:05:47.00

Number of residues: Number of sequences optimized: 1682879 4259

The scores below are sorted by optimized score. Significance is calculated based on optimized score.

3 100% identical sequences to the query sequence were found:

Sequence Name	Description	Length	Init. Score	Opt. Score	Sig. Fr	ane
1. A47574 2. A43645 3. KFHU3	tissue factor precursor - hu tissue factor - human tissue factor precursor - hu	295	295	295 295 295	8.33 8.33 8.33	0

The list of other best scores is:

Sequence Name	Description	Length	Init. Score		Sig.	Frame
4. KFB03 5. KFRB3	**** 6 standard deviati tissue factor precursor - tissue factor precursor - **** 5 standard deviati	bov 292 rab 292 ons above me	148 209 an **	257 254	6.92 6.80	0
6. S23681 7. KFMS3	tissue factor - rabbit tissue factor precursor -		209 87 280 881	229 219	5.88 5.50	
8. VGNZU1 9. A46329 10. B46329 11. C46329 12. VGNZTE 13. A36830 14. D46329 15. VGNZTE 16. H46329 17. S07422 18. F46329 19. VGNZGB 20. A30588 21. VGNZNV 23. S06345 24. E46329 25. G46329 26. B36830 27. VGNZND 28. I46329 29. XDEC 30. A42632 31. OYBRC 32. A32800	**** 3 standard deviati fusion glycoprotein - New fusion glycoprotein precu fusion glycoprotein precu glycoprotein precu glycoprotein x precursor fusion glycoprotein precu fusion glycoprotein - New fusion glycoprotein - My attachment protein MgPa - fusion glycoprotein precu fus	ons above me cast 553 rsor 553	ean *** 77777887777777777777777777777777777	157 157 157 157 156 156 156 156 155 155 155 155 155 155	3.20 3.20 3.16 3.16 3.16 3.16 3.16 3.12 3.12 3.12 3.12 3.12 3.12 3.12 3.12	000000000000000000000000000000000000000
33. A34173 34. A41931 35. HHMS60 36. A29646 37. S13089 38. GRMSP1 39. S18449 40. S20548	mitochondrial protein P1 heat shock protein hsp60, heat shock protein 60 pre invasin - Yersinia pseudo heat shock protein 60 pre microtubule-associated pr variant surface glycoprot leptomycin B resistance p	hsp 573 curs 573 tube 986 curs 573 otei 2464 ein 514	9 9 7 7 8 7	153 153 153 153 153 152 152 152	3.05 3.05 3.05 3.05 3.05 3.01 3.01	0

```
1. FURM-969863-FIG2.PEP (1-295)
```

A47574 tissue factor precursor - human

A47574 #type complete
tissue factor precursor - human
#formal name Homo sapiens #common name man
31-Dec-1993 #sequence_revision 31-Dec-1993 #text_change
31-Dec-1993
A47574
Fisher-**ENTRY** TITLE ORGANISM DATE **ACCESSIONS** REFERENCE #authors Fisher, K.L.; Gorman, C.M.; Vehar, G.A.; O'Brien, D.P.; Lawn, R.M. #journal #title Thronb. Res. (1987) 48:89-99 Cloning and expression of human tissue factor cDNA. A47574 #accession

preliminary ##status

##molecule_type mRNA ##residues 1-295 ##label FIS ##rross-references CR:M27434

145 148 2.43

Times: CPU

CPU Total Elapsed 00:01:33.96 00:03:13.00

Number of residues: 1520603 Number of sequences optimized: 3760

The scores below are sorted by optimized score. Significance is calculated based on optimized score.

A 100% identical sequence to the query sequence was found:

Sequence Name	•	Length Score Score Sig. Frame
1. TF_HUMAN	TISSUE FACTOR PRECURSOR (TF)	295 295 295 61.80 0

The list of other best scores is:

Sequence Name	Description	Init. 0 Length Score S	pt. core	Sig. F	rane
2. TF_BOVIN	#### 46 standard deviations TISSUE FACTOR PRECURSOR (TF) #### 44 standard deviations	292 148	257	46.15	0
3. TF_RABIT	TISSUE FACTOR PRECURSOR (TF)	292 209	254	44.91	0
4. TF_MOUSE	TISSUE FACTOR PRECURSOR (TF)	294 87	219	30.49	0
5. VGLF_NDVQ 6. VGLF_NDVU 7. BRAZ_PSEAE	FUSION GLYCOPROTEIN PRECURSO FUSION GLYCOPROTEIN PRECURSO BRANCHED CHAIN AMINO ACID TR	R 553 7 R 553 7 A 437 6	157 157 156	4.94 4.94 4.53	000
8. VGLF_NDVH4 9. VGLF_NDVA 10. VGLF_NDVT	FUSION GLYCOPROTEIN PRECURSON FUSION GLYCOPROTEIN PRECURSON FUSION GLYCOPROTEIN PRECURSON	R 553 7 R 553 7 R 553 7	156 156 156	4.53 4.53 4.53	0000
11. VGLF NDVH3 12. VGLX HSVEB 13. ADP1 MYCGE	FUSION GLYCOPROTEIN PRECURSON GLYCOPROTEIN X PRECURSOR. 140 KD ADHESIN PRECURSOR (AT	797 8 T 1444 7	156 156 155	4.53 4.53 4.12	0
14. DCT1 HUMAN 15. VGLF NDVB 16. VGLF NDVTG 17. VGLF NDVM	OCTAMER-BINDING TRANSCRIPTION FUSION GLYCOPROTEIN PRECURSON FUSION GLYCOPROTEIN PRECURSON FUSION GLYCOPROTEIN PRECURSON	R 553 7 R 553 7 R 553 7	155 155 155 155	4.12 4.12 4.12 4.12	000
18. VGLF_NDVL	FUSION GLYCOPROTEIN PRECURSO **** 3 standard deviations	above mean ****	155	4.12	0
19. VGLF_NDVI 20. CYAA_BORPE 21. ASG2_ECOLI 22. I230_MOUSE	FUSION GLYCOPROTEIN PRECURSON CALMODULIN-SENSITIVE ADENYLA' L-ASPARAGINASE II PRECURSOR INDOLEAMINE 2,3-DIOXYGENASE	T 1706 7 (348 6	154 154 154 153	3.71 3.71 3.71 3.30	0000
23. P60_RUMAN 24. P60_RAT 25. P60_CRIGR	MITOCHONDRIAL MATRIX PROTEIN MITOCHONDRIAL MATRIX PROTEIN MITOCHONDRIAL MATRIX PROTEIN	573 8 573 9 573 9	153 153 153	3.30 3.30 3.30	0
26. A4_DROME 27. P60_MOUSE 28. INVA_YERPS	BETA-AMYLOID-LIKE PROTEIN PRI MITOCHONDRIAL MATRIX PROTEIN INVASIN.	573 9 985 7	153 153 153	3.30 3.30 3.30	0
29. ATC1_YEAST 30. FTSZ_BACSU 31. SYFB_BACSU 32. MAPB_MOUSE	**** 2 standard deviations CALCIUM-TRANSPORTING ATPASE CELL DIVISION FTSZ PROTEIN. PHENYLALANYL-TRNA SYNTHETASE MICROTUBULE-ASSOCIATED PROTE	1 950 7 382 7 804 7	152 152 152 152	2.88 2.88 2.88 2.88	0000
33. PEC1_HUMAN 34. AROA_KLEPN 35. VSI4_TRYBB	PLATELET ENDOTHELIAL CELL AD 3-PHOSPHOSHIKIMATE 1-CARBOXY VARIANT SURFACE GLYCOPROTEIN	H 738 7 V 427 6 514 8	152 152 152	2.88 2.88 2.88	0
36. CH60 BACSU 37. CH60 THEP3 38. MOT1 YEAST 39. FLIF BACSU 40. ICEN PSESY	60 KD CHAPERONIN (PROTEIN CP) 60 KD CHAPERONIN (HEAT SHOCK PROBABLE HELICASE MOTI. FLAGELLAR M-RING PROTEIN (FL ICE NUCLEATION PROTEIN.	538 7 1867 8	151 151 151 151 151	2.47 2.47 2.47 2.47 2.47	00000
	HWARMILLOWIT LINGILANT			/	•

```
1. FURM-969863-FIG2.PEP (1-295)
TF_HUMAN TISSUE FACTOR PRECURSOR (TF) (COAGULATION FACTOR I
```

```
TF HUMAN
P13726;
ID
                                  STANDARD;
                                                             PRT;
                                                                         295 AA.
AC
DT
        01-JAN-1990 (REL. 13, CREATED)
01-JAN-1990 (REL. 13, LAST SEQUENCE UPDATE)
01-FEB-1994 (REL. 28, LAST ANNOTATION UPDATE)
TISSUE FACTOR PRECURSOR (TF) (COAGULATION FACTOR III).
DT
DT
DE
GN
OS
OC
OC
        HOMO SAPIENS (HUMAN).
EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
EUTHERIA; PRIMATES.
RN
         [1]
RP
         SEQUENCE FROM N.A.
RM
         89247359
                           . MORRISSEY . H . FOWLER R . FOCINCTON T S :
```

```
RN
        [2]
 RP
        SEQUENCE FROM N.A.
 RM
        87260946
        SPICER E.K., HORTON R., BLOEM L., BACH R., WILLIAMS K.R., GUHA A., KRAUS J., LIN T.C., NEMERSON Y., KONIGSBERG W.H.; PROC. NATL. ACAD. SCI. U.S.A. 84:5148-5152(1987).
 RA
 RA
 RL
 RN
 RP
        SEQUENCE FROM N.A.
 RM
        87244317
        MORRISSEY J.H., FAKHRAI H., EDGINGTON T.S.;
 RA
        CELL 50:129-135(1987).
 RL
 RN
        [4]
 RP
        SEQUENCE FROM N.A.
 RM
        88050796
        SCARPATI E.M., WEN D., BROZE G.J. JR., MILETICH J.P., FLANDERMEYER R.R., SIEGEL N.R., SADLER J.E.; BIOCHEMISTRY 26:5234-5238(1987).
 RA
 RA
 RL
 RN
        [5]
 RP
        DISULFIDE BONDS, AND PALMITOYLATION.
        89000604
 RM
        BACH R., KONIGSBERG W.H., NEMERSON Y.;
BIOCHEMISTRY 27:4227-4231(1988).
-!- FUNCTION: INITIATES BLOOD COAGULATION BY FORMING A COMPLEX WITH
 RA
 CIRCULATING FACTOR VII OR VIIA. THE ITF:VIIA) COMPLEX ACTIVATES FACTORS IX OR X BY SPECIFIC LIMITED PROTOLYSIS. TF PLAYS A ROLE IN NORMAL HEMOSTASIS BY INITIATING THE CELL-SURFACE ASSEMBLY AND PROPAGATION OF THE COAGULATION PROTEASE CASCADE.
        -!- SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN.
-!- INDUCTION: TF EXPRESSION IS HIGHLY DEPENDENT UPON CELL TYPE. TF
CAN ALSO BE INDUCED BY THE INFLAMMATORY MEDIATORS INTERLEUNIN 1
              AND TNF, AS WELL AS BY ENDOTOXIN, TO APPEAR ON MONOCYTES AND VASCULAR ENDOTHELIAL CELLS AS A COMPONENT OF CELLULAR IMMUNE
 CC
              RESPONSE.
        EMBL; J02931; HSTFP.
EMBL; M16553; HSTFI.
EMBL; J02846; HSTFPB.
 ĎŘ
 DR
 DR
        PIR; A28320; KFHU3.
 DR
        PIR; A43645; A43645.
MIM; 134390; TENTH EDITION.
PROSITE; PS00621; TISSUE_FACTOR.
 DR
 DR
 DR
        GLYCOPROTEIN; BLOOD COAGULATION; TRANSMEMBRANE; SIGNAL; LIPOPROTEIN.
 KW
        SIGNAL
 FT
                                    32
 FT
        CHAIN
                                   295
                          33
                                                 TISSUE FACTOR.
 FT
FT
FT
                          33
                                   251
                                                 EXTRACELLULAR (POTENTIAL).
        DOMAIN
                         252
275
        TRANSMEM
                                   274
                                                 POTENTIAL.
                                   295
                                                 CYTOPLASMIC (POTENTIAL).
        DOMAIN
 FT
FT
                          46
                                    48
        SITE
                                                 WKS MOTIF.
        SITE
                          77
                                    79
                                                 WKS MOTIF.
 FT
FT
                         190
                                   192
                                                 WKS MOTIF.
        SITE
        CARBOHYD
                         156
                                   156
                                                 POTENTIAL.
 FT
                         169
        CARBOHYD
                                   169
                                                POTENTIAL.
 FŤ
        DISULFID
                          81
                                    89
 FT
        DISULFID
                         218
                                   241
                         277
 FT
        LIPID
                                   277
                                                PALMITATE.
 FT
        CONFLICT
                                                V -> A (IN REF. 4).
                         260
                                   260
 59
        SEQUENCE
                       295 AA;
                                   33067 MW; 494480 CN;
Initial Score
                              295
                                     Optimized Score =
                                                                     295
                                                                           Significance = 61.80
Residue Identity =
                                                                     295
                             100%
                                     Matches
                                                                           Mišmatches
Gaps
                                     Conservative Substitutions
     METPAWPRVPRPETAVARTLLLGWVFAQVAGASGTTNTVAAYNLTWKSTNFKTILEWEPKPVNQVYTVQIST
     HETPAWPRVPRPETAVARTLLLGWVFAGVAGASGTTNTVAAVNLTWKSTNFKTILEWEPKPVNGVYTVGIST
                10
                              20
                                            30
                                                           40
                                                                         50
                                                                                       60
                                        100
                                                      110
                                                                    120
                                                                                  130
     KSGDWKSKCFYTTDTECDLTDEIVKDVKQTYLARVFSYPAGNVESTGSAGEPLYENSPEFTPYLETNLGQPT
     KSGDWKSKCFYTTDTECDLTDEIVKDVK@TYLARVFSYPAGNVESTGSAGEPLYENSPEFTPYLETNLG@PT
              80
                            90
                                        100
                                                      110
                                                                    120
                                                                                  130
                                                                                                 140
                                                                  190
                                                    180
     IOSFEOVGTKVNVTVEDERTLVRRNNTFLSLRDVFGKDLIYTLYYWKSSSSGKKTAKTNTNEFLIDVDKGEN
     10sfeqvgtkvnvtvedertlvrrnntflslrdvfgkdlivtlyvmkssssgkktaktnineflidvdkgen
          150
                       160
                                     170
                                                    180
                                                                  190
                                                                                200
                                                                                              210
                                                 250
                                                               260
     YCFSV@AVIPSRTVNRKSTDSPVECMG@EKGEFREIFYIIGAVVFVVIILVIILAISLHKCRKAGVG@SWKE
     ĮĮĮĮ
YCFSVGAVIPSRTVNRKSTDSPVECMGGEKGEFREIFYIIGAVVFVVIILVIILAISLAKCRKAGVGGSWKE
       220
                     230
                                   240
                                                 250
                                                               260
                                                                             270
                                                                                           280
```

BIOCHEMISTRY 28:1755-1762(1989).

290 X

```
NSPLNVS
290 X
```

```
2. FURM-969863-FIG2.PEP (1-295)
    TF_BOVIN
                     TISSUE FACTOR PRECURSOR (TF) (COAGULATION FACTOR I
 ID
        TF BOVIN
                            STANDARD;
                                                 PRT;
                                                           292 AA.
        P30931;
        01-JUL-1993 (REL. 26, CREATED)
01-JUL-1993 (REL. 26, LAST SEQUENCE UPDATE)
01-FEB-1994 (REL. 28, LAST ANNOTATION UPDATE)
TISSUE FACTOR PRECURSOR (TF) (COAGULATION FACTOR III).
 DT
 DT
 DT
 DF
        BOS TAURUS (BOVINE).
EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
 05
 OC
 OC
        EUTHERIA; ARTIODACTYLA.
 RN
 RP
        SEQUENCE FROM N.A., AND PARTIAL SEQUENCE.
 RC
        TISSUE=ADRENAL GLAND;
        92109720
 RM
        TAKAYENOKI Y., MUTA T., MIYATA T., IWANAGA S.;
BIOCHEM. BIOPHYS. RES. COMMUN. 181:1145-1150(1991).
-!- FUNCTION: INITIATES BLOOD COAGULATION BY FORMING A COMPLEX WITH
CIRCULATING FACTOR VII OR VIIA. THE LTF:VIIA] COMPLEX ACTIVATES
FACTORS IX OR X BY SPECIFIC LIMITED PROTOLYSIS. TF PLAYS A ROLE IN
NORMAL HEMOSTASIS BY INITIATING THE CELL-SURFACE ASSEMBLY AND
PROPAGATION OF THE COAGULATION PROTESSE CASCADE.
 RA
 RL
 CC
CC
CC
CC
        -!- SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN.
EMBL; S74147; S74147.
PIR; J01319; KFB03.
 DR
 DR
        GLYCOPROTEIN; BLOOD COAGULATION; TRANSMEMBRANE; SIGNAL; LIPOPROTEIN.
 KW
FT
FT
FT
FT
FT
        SIGNAL
                                   35
        CHAIN
                                  292
                          36
                                                TISSUE FACTOR.
                                  248
                                                EXTRACELLULAR (POTENTIAL).
        DOMAIN
        TRANSMEM
                        249
                                  271
                                                POTENTIAL
                        272
                                                CYTOPLASMIC (POTENTIAL).
                                  292
        DOMAIN
        SITE
                          46
                                   48
                                                WKS MOTIF.
 FT
FT
                          43
                                               POTENTIAL. POTENTIAL.
        CARBOHYD
                                   43
                         153
                                  153
        CARBOHYD
                        181
81
215
 FT
        CARBOHYD
                                  181
                                                POTENTIAL.
 FT
                                  89
238
                                                BY SIMILARITY.
BY SIMILARITY.
        DISULFID
 FT
        DISULFID
        LIPID
                        274
                                                PALMITATE (BY SIMILARITY).
 FT
                                  274
                       292 AA;
                                  32475 MW; 478152 CN;
        SEQUENCE
                              148 Optimized Score = 49% Matches =
                                                                   257 Significance = 46.15
204 Mismatches = 71
Initial Score
                              69% Matches = 204
3 Conservative Substitutions
Residue Identity =
Gaps
     METPAWPRVPRPETAVARTLLLGWVFAQVAGASGTTNTVAAYNLTWKSTNFKTILEWEPKPVNQVYTVQIST
     MATPNGPRVPCPGAAVARALLFGLVLIGGAGVAGTTDVVVAYNITUKSTNFKTILEWEPKPINHVYTVGISP
                                            30
                10
                              20
                                                          40
                                        100
                                                                    120
     KSGDWKSKCFYTTDTECDLTDEIVKDVK@TYLARVFSYPAGNVESTGSAGEPLYENSPEFTPYLETNLG@PT
     RLGNWKNKCFYTTNTECDVTDEIVKNVRETYLARVLSYPA---DTSSSTVEPPFTNSPEFTPYLETNLGGPT
              80
                           90
                                        100
                                                     110
                                                                        120
                                                                                     130
     IOSFEGVGTKVNVTVEDERTLVRRNNTFLSLRDVFGKDLIYTLYYWKSSSSGKKTAKTNTNEFLIDVDKGEN
      I OSFEGYCTKLNYTYGDARTLYRANSAFLSLRDYFGKDLNYTLYYWKASSTGKKKATTNTNGFLIDYDKGEN
                                         170
                                                       180
                                                                     190
                                                                                   200
             150
                           160
                                                250
                                  240
                                                              590
     YČFSVQAVIPSRTVNRKSTDSPVECMGQEKGEFREIFYIIGAVVFVVIILVĪILAISLHKCRKAGVGQSWKE
     YCFHV@AVILSRRVN@KSPESPIKCTSHEKVLSTELFFIIGTVMLVIIIFIVVLSVSLHKCRKVRAERSGKE
           550
                        230
                                      240
                                                    250
                                                                  260
    290
     NSPLNVS
     | ||| :
NTPLNAA
        290 X
3. FURM-969863-FIG2.PEP (1-295)
                     TISSUE FACTOR PRECURSOR (TF) (COAGULATION FACTOR I
    TF RABIT
 ID
        TF RABIT
                            STANDARD;
                                                 PRT;
                                                           292 AA.
        P24055;
        01-MAR-1992 (REL. 21, CREATED)
01-MAR-1992 (REL. 21, LAST SERUENCE UPDATE)
 DT
```

```
01-FEB-1994 (REL. 28, LAST ANNOTATION UPDATE)
TISSUE FACTOR PRECURSOR (TF) (COAGULATION FACTOR III).
DRYCTOLAGUS CUNICULUS (RABBIT).
 DT
 DE
 OS
        EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
 DC
 OC
        EUTHERIA; LAGOMORPHA.
 RN
 RP
        SEQUENCE FROM N.A.
 RC
        TISSUE=HEART;
        91200676
 RM
 RA
        ANDREWS B.S., REHEMTULLA A., FOWLER B.J., EDGINGTON T.S., MACKMAN N.;
 RL
        GENE 98:265-269(1991).
 RN
        [2]
 RP
        SEQUENCE FROM N.A.
 RM
        92081032
       PAWASHE A., EZEKOWITZ M., LIN T.C., HORTON R., BACH R., KONIGSBERG W.; THROMB. HAEMOST. 66:315-320(1991).
-!- FUNCTION: INITIATES BLOOD COAGULATION BY FORMING A COMPLEX WITH
 RA
 RL
 CIRCULATING FACTOR VII OR VIIA. THE [TF:VIIA] COMPLEX ACTIVATES
       FACTORS IX OR X BY SPECIFIC LIMITED PROTOLYSIS. TF PLAYS A ROLE IN NORMAL HEMOSTASIS BY INITIATING THE CELL-SURFACE ASSEMBLY AND PROPAGATION OF THE COAGULATION PROTEASE CASCADE.
-!- TISSUE SPECIFICITY: BRAIN, HEART.
-!- SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN.
 DŘ
       EMBL; M55390; OCRTF.
        PIR; JU0441; KFRB3.
 DR
       PROSITE; PS00621; TISSUE FACTOR.
GLYCOPROTEIN; BLOOD COAGOLATION; TRANSHEMBRANE; SIGNAL; LIPOPROTEIN.
 DR
KW
FT
FT
FT
FT
FT
FT
FT
FT
FT
        SIGNAL
       CHAIN
                                292
                                              TISSUE FACTOR.
EXTRACELLULAR (POTENTIAL).
                                 250
        DOMAIN
                         33
        TRANSMEM
                       250
                                 271
                                              POTENTIAL
                       272
                                292
                                              CYTOPLASMIC (POTENTIAL).
       DOMAIN
                                             WKS MOTIF. WKS MOTIF.
        SITE
                         44
                                  46
                         75
                                 77
       SITE
                                             POTENTIAL.
       CARBOHYD
                         41
                                  41
       CARBOHYD
                                114
                                             POTENTIAL.
                       114
       CARBOHYD
                       154
                                             POTENTIAL.
                                154
       CARBOHYD
                       167
                                 167
                                             POTENTIAL.
                       182
                                             POTENTIAL.
       CARBOHYD
                                182
                        79
                                 87
       DISULFID
                                              BY SIMILARITY.
 FT
       DISULFID
                       216
                                239
                                              BY SINILARITY.
 FT
       LIPID
                       274
                                             PALMITATE (BY SIMILARITY).
                                 274
 SQ
       SEQUENCE
                      292 AA;
                                 32738 MW; 459706 CN;
                            209 Optimized Score =
Initial Score
                                                                254 Significance = 44.91
Residue Identity =
                            69%
                                   Matches
                                                                206
                                                                       Mismatches
                                                                                               67
                                   Conservative Substitutions
Gaps
     METPAWPRVPRPETAVARTLLLGWVFAQVAGASGTTNTVAAYNLTWKSTNFKTILEWEPKPVNQVYTVQIST
     MAPPTRLGVPRPGTAVPYTVLLGWLLAGVARAADTTGR--AYNLTWKSTNEKTILEWEPKSIDHVYTVGIST
               10
                            20
                                          30
                                                          40
                                                                       50
                                                                                    60
     KSGDWKSKCFYTTDTECDLTDEIVKDVK@TYLARVFSYPAGNVESTGSAGEPLYENSPEFTPYLETNLG@PT
     RLENWKSKCFLTAETECDLTDEVVKDVGGTYMARVLSYPARNGNTTGFPEEPPFRNSPEFTPYLDTNLGGPT
               80
                            90
                                        100
                                                      110
                                                                   120
                                                                                130
                                                                                              140
                                   170
                                                180
                                                              190
                                                                           200
     I OSFE OVGTKVNVTVEDERTL VRRNNTFLSLRDVFGKDLIYTL YYMKSSSSGKKTAKTNTNEFLIDVDKGEN
     I OSFEQUETKLNUTVODARTLURRNGTFLSLRAVFGKDLNYTLYYWRASSTGKKTATTNINEFLIDVDKGEN
            150
                         160
                                      170
                                                   180
                                                                190
                                                                              200
      220
                   230
                                240
                                              250
                                                           260
                                                                        270
     YCFSV@AVIPSRTVNRKSTDSPVECMG@EKGEFREIFYIIGAVVFVVIILVIILAISLHKCRKAGVG@SWKE
     YCFSV@AVIPSRKRK@RSPESLTECTSRE@GRAREMFFIIGAVV-VVALLIIVLSVTVYKCRKARAGPSGKE
         220
                      230
                                   240
                                                               260
                                                                            270
                                                                                         280
    290
     NSPLNVS
     ||||::
SSPLNIA
       290 X
4. FURM-969863-FIG2.PEP (1-295)
   TF_MOUSE
                    TISSUE FACTOR PRECURSOR (TF) (COAGULATION FACTOR I
 ID
       TF MOUSE
                           STANDARD:
                                               PRT;
                                                        294 AA.
       P20352;
       01-FEB-1991 (REL. 17, CREATED)
01-AUG-1991 (REL. 19, LAST SEQUENCE UPDATE)
01-FEB-1994 (REL. 28, LAST ANNOTATION UPDATE)
TISSUE FACTOR PRECURSOR (TE) (COACULATION FACTOR III)
 DT
 DT
 NF
```

```
GN
       CF-3.
      MUS MUSCULUS (MOUSE).
EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
 05
 DC
       EUTHERIA; RODENTIA.
 OC
 RN
 RP
       SEQUENCE FROM N.A.
       91093171
 RM
 RA
       RANGANATHAN G., BLATTI S.P., SUBRAMANIAM M., FASS D.N., MAIHLE N.J.,
 RA
       GETZ M.J.:
 RL
       J. BIOL. CHEM. 266:496-501(1991).
 RN
       SEQUENCE FROM N.A.
 ŘΡ
 RC
       STRAIN=BALB/C;
 RM
       89343974
      HARTZELL S., RYDER K., LANAHAN A., LAU L.F., NATHANS D.;
MOL. CELL. BIOL. 9:2567-2573(1989).
-!- FUNCTION: INITIATES BLOOD COAGULATION BY FORMING A COMPLEX WITH
CIRCULATING FACTOR VII OR VIIA. THE [TF:VIIA] COMPLEX ACTIVATES
 RA
RL
CC
CC
CC
CC
CC
CC
           FACTORS IX OR X BY SPECIFIC LIMITED PROTOLYSIS. TF PLAYS A ROLE IN NORMAL HEMOSTASIS BY INITIATING THE CELL-SURFACE ASSEMBLY AND PROPAGATION OF THE COAGULATION PROTEASE CASCADE.
       -!- SUBCELLULAR LOCATION; TYPE I MEMBRANE PROTEIN.
      EMBL; M57896; MMTFA.
EMBL; M26071; MMTF.
 DR
DR
      PIR; A32318; KFMS3.
DR
      PROSITE; PS00621; TISSUE FACTOR. GLYCOPROTEIN; BLOOD COAGULATION; TRANSMEMBRANE; SIGNAL; LIPOPROTEIN.
DR
 KW
 FT
       SIGNAL
                              28
FT
FT
                      29
                             294
       CHAIN
                                         TISSUE FACTOR.
       DOMAIN
                      29
                             251
                                         EXTRACELLULAR (POTENTIAL).
FT
FT
                     252
275
                             274
       TRANSMEM
                                         POTENTIAL
                             294
                                         CYTOPLASMIC (POTENTIAL).
      DOMAIN
FT
FT
FT
                     245
37
                             247
37
       SITE
                                         WKS MOTIF.
       CARBOHYD
                                         POTENTIAL.
      CARBOHYD
                      57
                              57
                                         POTENTIAL.
                     169
200
FT
                                         POTENTIAL.
      CARBOHYD
                             169
 FT
                                         POTENTIAL
       CARBOHYD
                             200
 FŤ
      DISULFID
                      75
                              83
                                         BY SIMILARITY.
                     218
275
FT
FT
                                         BY SIMILARITY.
      DISULFID
                             241
                             275
                                         PALMITATE (BY SIMILARITY).
      LIPID
 FT
       CONFLICT
                      26
                              26
                                         I -> T (IN REF. 2).
                   294 AA;
                              32935 MW; 468130 CN;
      SEQUENCE
 SQ
                                                          219 Significance = 30.49
                               Optimized Score =
Initial Score
Residue Identity
                                                                             = 114
                          52%
                               Matches
                                                          158 Mismatches
                           13
                               Conservative Substitutions
                                                                                     16
Gaps
    METPAWPRVPRPETAVARTLLLGWVFA@VAGASGTTNTVAAYNLTWKSTNFKTILEWEPKPVN@VYTV@IST
    MAILVRPRLL --- AALAPT-FLCCLLLQVIAGAGIPEK-AFNLTWISTDFKTILEWAPKPTNYTYTVGISD
              10
                               20
                                          30
                                                         40
                                                                     50
                                                                                 60
                                  100
                                                           120
    KSGDWKSKCFYTTDTECDLTDEIVKDVK@TYLARVFSYP-AGNVESTGS----AGEPLYENSPEFTPYLET
    RSRNWKNKCFSTTDTECDLTDEIVKDVTWAYEAKVLSVPRRNSVHGDGD@LVIHGEEPPFTMAPKFLPYRDT
                                                                             130
                  80
                               90
                                         100
                                                     110
                                                                 120
                                       170
                                                   180
    NLGQPT1QSFEQVGTKVNVTVEDERTLVRRNNTFLSLRDVFGKDLIYTLYYWKSSSSGKKTAKTNTNEFLID
    190
   140
                           160
                                                   180
                                                                           200
               150
                                       170
                                                                                       210
    220 230 240 250 260 270 280 VDKGENYCFSVQAVIPSRTVNRKSTDSPVECMGQEKGEFREIFYIIGAVVFVVIILVIILAISLHKCRKAGV
    220
                        230
                                    240
                                                250
          290
    GOSHKENSPLNVS
    ĠĠĸĠĸ-ŃŦPSRLA
           290
5. FURM-969863-FIG2.PEP (1-295)
   VGLF NDV0
                 FUSION GLYCOPROTEIN PRECURSOR (CONTAINS: FUSION GL
      VGLF_NDV@
P33615;
 ID
                        STANDARD;
                                          PRT;
                                                   553 AA.
 AC
 DT
       01-FEB-1994 (REL. 28, CREATED)
      01-FEB-1994 (REL. 28, LAST SEQUENCE UPDATE)
01-FEB-1994 (REL. 28, LAST ANNOTATION UPDATE)
 DT
 ĎΕ
       FUSION GLYCOPROTEIN PRECURSOR (CONTAINS: FUSION GLYCOPROTEINS F1 AND
```

```
FH FT FT FT FT FT XX
                       Location/Qualifiers
      sig_peptide
                       64..144
                       1..1683
                       /strain="Sprague-Dawley"
/organism="Rattus norvegicus"
/cell_type="aortic smooth muscle"
      CDS
                       /note="NCBI gi: 464011"
                       /product="tissue factor protein"
/codon_start=1
      Sequence 1683 BP; 473 A; 379 C; 379 G; 452 T; O other;
                       321 Optimized Score = 555
60% Matches = 600
69 Conservative Substitutions
                                                    555 Significance = 21.64
600 Mismatches = 321
Initial Score = Residue Identity =
                                  30
    CTCGCACTCCCTCTGGCCGGCCCAGGGCGCTTCAGCCCAACCTCCCCAGGCCCCACGGGCGCCACGGAACCC
                                 CTCGTGTAGCGTAGCCTCC---GCGCCTCTG--
    80 70 100 110 120 120 130 CCCCGAGACTGGTAGACATGGAGACCCCTGCCTGGCCCCGGGTCCCGCGCC-CCGAGACCGC
    ccgcgAcctcGccAgcAGcccTtgGACATGGCTATCCC--CATG----CG---CCCGCGCCTCCTAG-CGGC
    150 160 170 180 190 200 210 CGTCGCTCGGCCGCCTCCGGCTGGGTCTTCGCC--CAGGTGGCCGGCGCTTCAGGCA---CTACAAAT
    CCTCGCGCCCAC-CT--TTCTCGGCT--TCCTTCTCCTTCAGGTGGCGCTTGGTGCAGGCACTCCTCCAGGG
            110
                           120
                                       130
                                                   140
    220 230 240 250 260 270 280 ACTGTGGCAGCATATATTTAACTTGGAATCAACTAATTTCAAGACAATTTTGGAGTGGGAACCCAAACCC
    AAAG-CGTTTAATTTAACTTGGATATCAACTGATTTCAAGACAATCTTGGAGTGGCAACCGAAACCCAA
    290 300 310 320 330 340 350 GTCAATCAAGTCTACACTGTTCAAATA-AGCACTA-AGTCAGGAGATTGGAAAAGCAAATGCTTTTACACAA
    ctathccthcattgttchdatahgcchthdattthdahactgth-hatachhattch----ttggahccach
                                             280
     240
                          260
                                     270
                                                           290
                                     380
    CAGACACAGAGTG---TGACCTCACCGA---CGA-GATTGTGAA--GGA--TGTGAAGCA---GACGTA-CT
    10 420 430 440 450 460 470 -TGGCACGGTCTCCCACCGGAG---CCTCTGTA
    Głęccardegagagat-caac---teategaayagactertetteegaacteategagagaaccaccat-
                 390
                                400
                                                     420
                                          410
                                                                430
    480 490 500 510 520 530 540 TGAGAACTCCCCAG-AGTTCACACCTTACCTGGAGACAACCTCGGACAACCAATTCAGAGTTTTGAAC
    TTACAAATGCCCGGAAGTTTTTACCTTACCGAGATACAAAAATTGGACAGCCAGTAATTCAGAAGTATGAAC
                   460
                              470
                                         480
    550 560 570 580 590 600 610 AGGTGGGAACAAAAGTGAATGTGACCGTAGAAGATGAACGGACTTTAGTCAGAAGGAACACTTTCCTAA
    550
                            540
                                                  560
    0 630 640 650 660 670 680 690 690 690 690 690 690 690 690 690
    CTCTGCGCAAGTTTTTGGCAATGACTTGGGTTATATTCTTACGTATAGGAAAGGACTCAAGCACAGAAGGACAA
     590
                600
                         610
                                    620
                                               630
                                720
                                          730
                                                     740
    AAACAGCCAAAACAACACTAATGAGTTTTTGATTGATGTGGATAAAGGAGAAAACTACTGTTTCAGTGTTC
                                   690
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ĄĄĢÇÁĠŤĠĄŢŢĊĊĊŤĊČĊĠĄĄĊĄĠŤŤĄĄĊĊĠĠĄĄĞĄĞTĄĊĄĠĄĊĄĠĊĊĠĠŦĄĠĄĞŤĠŦĄ-ŢĠĠĢĊĊĄĠĠĄĢ

810

XX

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ĊĂŦĠĠĂĂAĠĠAAĀĊĀĊŦĊŦŦŦĠĠAAĊŤĊAŤĠĠĠĠĀĠĠAAĊĊĠĊĊAŤ~
            380
                                                            400
                                                                                410
                                                                                                    420
                                                                                                                         430
        480 490 500 510 520 530 540 TGAGAACTCCCCAG-AGTTCACACCTTACCTGGAGACAAACCTCGGACAACCAATTCAGAGTTTTGAAC
        ttacaaatgcccggaagtttttaccttaccgagatacaaaattggacagccagtaattcagaagtatgaac
                                                          470
                                                                              480
                                                                                                  490
       550 560 570 580 590 600 610
AGGTGGGAACAAAGTGAATGTGACCGTAGAAGATGAACGGACTTTAGTCAGAAGGAACAACACTTTCCTAA
       530
              520
                                                      540
                                                                          550
                                                                                              560
                                                                                                                  570
       0 630 640 650 660 670 680 690
GCCTCCGGGATGTTTTTGGCAAGGACTTAATTATACACTTTATTATTGGAAATCTTCAAGTTCAGGAAAGA
       620
                                                                                          630
                             600
                                                  610
                                                                                                              640
                                                                                                                                   650
        700 710 720 730 740 750 760 AAACAGCCAAAACAACCACTAATGAGTTTTTGATTGATGTGGATAAAGGAGAAAACTACTGTTTCAGTGTTC
       AAACAAACACTACACATACCAATGAATTCTTGATTGATGTGGAAAAGGGGGTAAGCTACTGCTTCCGCAC
      660
                         670
                                             680
                                                                  690
                                                                                      700
                                                                                                          710
                                                                                                                               720
       AAGCCGTGATTTTCTCCAGGAAAACTAACCACAAGAGCCCCAGAAAGCATCACCAAGTGCACTGAGCAATG-G
                     740
                                          750
                                                              760
                                                                                  770
                                                                                                      780
        AAAGGGGAATTCAGAGAAATATTCTACATCATTGGAGCTGTGGTATTTGTGGTCATCATCCTTGTCATCATC
       AAGAGTGTCCTGGGAGAAACACTCATCATTGTGGGAGCAGTGGTGTTCTTGTGTCTTTATCATCCTG
                   810
                                       820
                                                           830
                                                                                840
                                                                                                    850
                                                                                                                         860
                                                                                                                                             870
                                                  930
                                                                      940
                                                                                          950
                                                                                                              960
        CTGGCTATATCTCTACACAAGTGTAGAAAGGCAGGAGTGGGGCAGAGCTGGAAGGAGAACTCCCCACTGAAT
       ctencent Attention Total Control of the Control of 
                                                        900
                                                                            910
                                                                                                                          930
                                   890
                                                                                                920
               880
     980
       GTTTCATAA
       TTGGCATAGACGAGGAGGCTGACGCTGCTGACTGTCACACTGCCCAGACGCACTGTTA
                 950
                                     960
                                                                              980
11. FURM-969863-FIG2.SEQ (1-987)
                                 Rattus norvegicus Sprague-Dawley tissue factor pro
           RN07619
                                 standard; RNA; ROD; 1683 BP.
           U07619;
           25-MAR-1994 (Rel. 39, Created)
25-MAR-1994 (Rel. 39, Last updated, Version 1)
           Rattus norvegicus Sprague-Dawley tissue factor protein mRNA,
           complete cds.
           Rattus norvegicus (rat)
           Eukaryota; Animalia; Metazoa; Chordata; Vertebrata; Mammalia;
Theria; Eutheria; Rodentia; Myomorpha; Muridae; Murinae.
           [1]
           1-1683
           Rosenfield C., Guha A., Nemerson Y., Taubman M.B.;
           "Rat tissue factor: its protein sequence and clotting properties are divergent from that of the mouse";
           Unpublished.
           [2]
           1-1683
           Rosenfield C.;
           Submitted (09-MAR-1994) to the EMBL/GenBank/DDBJ databases.
           Claire-Lise Rosenfield, Medicine, Mount Sinai School of Medicine,
           One Gustave L. Levy Place, New York, NY 10029, USA
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ID

XX AC XX

DT

DT XX DE XX DE XX XX OS OC

DC XX RN RP RA

RT RT

RL.

XX RN

RP RA

RT RL

RL

XX CC

NCBI ni: 464010

```
10. FURM-969863-FIG2.SEQ (1-987)
    RRU07619
                Rattus norvegicus Sprague-Dawley tissue factor pro
 LOCUS
             RRU07619
                          1683 bp
                                     mRNA
                                                               25-MAR-1994
 DEFINITION
             Rattus norvegicus Sprague-Dawley tissue factor protein mRNA,
             complete cds.
 ACCESSION
             U07619
 KEYWORDS
 SOURCE
             rat
  ORGANISM
            Rattus norvegicus
             Eucaryotae; Metazoa; Chordata; Vertebrata; Gnathostomata; Mammalia;
             Eutheria; Rodentia; Myomorpha; Muridae; Rattus.
 REFERENCE
                (bases 1 to 1683)
             Rosenfield, C., Guha, A., Nemerson, Y. and Taubman, M.B.
   AUTHORS
             Rat tissue factor: its protein sequence and clotting properties are divergent from that of the mouse
   TITLE
   JOURNAL
             Unpublished
   STANDARD
             full automatic
             2 (bases 1 to 1683)
Rosenfield,C.
 REFERENCE
   AUTHORS
   TITLE
             Direct Submission
             Submitted (09-MAR-1994) Claire-Lise Rosenfield, Medicine, Mount
   JOURNAL
             Sinai School of Medicine, One Gustave L. Levy Place, New York, NY
             10029, USA
  STANDARD
            full automatic
 COMMENT
             NCBI gi: 464010
                      Location/Qualifiers
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/organism="Rattus norvegicus"
                      /cell_type="aortic smooth muscle"
     CDS
                      /note="NCBI gi: 464011"
                      /product="tissue factor protein"
                      /codon_start=1
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                      LSVPWRNSTHGKETLFGTHGEEPPFTNARKFLPYRDTKIG@PVI@KYE@GGTKLKVTV
                      KDSFTLVRKNGTFLTLRQVFGNDLGYILTYRKDSSTGRKTNTTHTNEFLIDVEKGVSY
CFFAQAVIFSRKTNHKSPESITKCTEGWKSVLGETLIIVGAVVFLVTVFIILLTISLC
                      KRRKNRAG@KRKNTPSRLA'
                                   379 g
 BASE COUNT
                 473 a
                          379 c
                                            452 t
ORIGIN
                          Optimized Score =
                                                 555 Significance = 21.64
Residue Identity =
                      60%
                          Matches
                                                 600 Mismatches = 321
                          Conservative Substitutions
                       69
Gaps
    CTCGCACTCCCTCTGGCCGGCCCAGGGCGCCTTCAGCCCAACCTCCCCAGGCCCACGGGCGCCACGGAACCC
                                                    --GCGCCTCTG
                               CTCGTGTAGCGTAGCCTCC-
                                                    20
    ccecchccttcccaechecccttechchtcbccatcc-catc---cc--cccccccttcthc-cecc
    CGTCGCTCGGACGCTCCTGCTCGGCTGGGTCTTCGCC--CAGGTGGCCGGCGCTTCAGGCA---CTACAAAT
    CCTCGCGCCCAC-CT-TTCTCGGCT-TCCTTCTTCAGGTGGCCGTTGGTGCAGGCACTCCTCCAGGG
                          120
   100
                               240
                                         250
    ACTGTGGCAGCATATAATTTAACTTGGAAATCAACTAATTTCAAGACAATTTTGGAGTGGGAACCCAAACCC
    AAAG-CGTTTAATTTAACTTGGATATCAACTGATTTCAAGACAATCTTGGAGTGGCAACCGAAACCCACCAA
       170
                           190
                180
                                     200
                                               210
                                                         220
    GTCAATCAAGTCTACACTGTTCAAATA-AGCACTA-AGTCAGGAGATTGGAAAAAGCAAATGCTTTTACACAA
    CTATACCTACACTGTTCAGATAAGCGATAGATCTAGAAACTGGA-AATACAAATGCA
                                                                  ĊŢĠĠĸĸĊĊĸĊĸ
                                             280
     240
               250
                                   270
                         260
                      370
                                   380
                                                390
                                                             400
    CAGACACAGAGTG---TGACCTCACCGA---CGA-GATTGTGAA--GGA--TGTGAAGCA---GACGTA-CT
    GACACTGAGTGTGAGCCTCACCGACGAGATTGTGAAGGATCTGAACTAGGACCTATGAACCAAGGGTCCTATCT
        310
                  320
                            330
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TCC-CCAGC----CCCACG-GGCGCCACGGAACCCGCTCGATCTCGCCGCCAACTGGTAGACATGGAGACCC
tcctgtagcgtagccaaccaccaccactgatahagccccaadacctcaccattagcacattagcattcc
                                          100
                                                              110
                                                                                120
                                                                                                  130
--reate----ee---eeceeeetreethe-eeetreteeeeegeehee---treteeetheeteeteeteete
                                                          170
                                                                            180
190 200 210 220 230 240 250 CAGGTGGCCGGCGCTTCAGGCACTACAATACTGTGGCAGCATATAATTTAACTTGGAAATCAACTAATTTC
260 270 280 290 300 310 320 AAGACAATTTTGGAGTGGGAACCCAAACCCGTCAATCAAGTCTACACTGTTCAAATAA--GCACTA-AGTCA
HATTTTGGAGTGGGAGCCCHANCCCACCAACTATACCTACACTGTACAGAT-HAGTGATCCATCTAGAAAACT
                                        300
                                                       310
                                                                            320
330 340 350 360 370 GGAGATTGGAAAAGCAAATGCTTTTACACAACAGACAGAGTGTGACCTCA-CCGA---CG---AGATTGT
GGAAA---AACAAG-TECTTCTCGACCAC-AGACACCGAGTGCGACCTCACAGACGAGATCGTGAAGGATGT
                                                            380
390 400 410 420 430 440 GA--AGG--ATGTGAAGCAGACGTACT--TG--GCACGGGTCTTCTCCTACCCGGCAGGGAATGTGGAGAG
GACCTGGGCCTATGAAGCAAAGGTCCTCTCTGTCCCACGGAGGAACT----CAGTTCATGG-AGACGGAGAC
                     430 440
                                                             450
0 460 470 480 490 500 510 CACC----GGTTC-TGCTGGGGAGCCTCTGTATGAGAACTCCCCAGAGTTCACACCTTACCTGGAGACAAAC
CAACTTGTGATTCATGGGGAGGAGCCGCCATTTACAAACGCCCCAAAGTTTTTACCTTACCGAGACACAAAC
520 530 540 550 560 570 580 CTCGGACAACAATTCAGAGTTTTGAACAGGTGGGAACAAAAGTGAATGTGACCGTAGAAGATGAACGG
ctreed checker and tech constitution of the control of the control
                      570
                                     580
                                                       590
90 600 610 620 630 640 650 660
ACTITAGTCAGAAGGAACAACACTTTCCTAAGCCTCCGGGATGTTTTTTGGCAAGGACTTAATTTATACACTT
ACATTAGTCAGAAAGAATGGTACATTCCTCACCTGCGGCAAGTCTTTGGCAAGGACTTGGGTTATAATT
      630
                                          650
                                                            660
                                                                             670
acttatceeaaageateaaegegeaaaagagaaacarraegaaabaatetcegatteatete
                                      720
                                                     730
                                                                        740
GAAGAAGGAGTAAGCTACTGCTTTTTTGTACAAGCTATGATTTTCTCCAGGAAAACTAACCAAAATAGCCCA
                780
                                  790
                                                     800
                                                                       810
810 820 830 840 850 850 860 870 GACAGCCCGGTAGAGTGTATGGGCCAGGAGAAAGGGG--GAATT--CAG--AGAAATATTCTACATCATTGGA
GGAAG--CAGTACAGTG--TGCACC--GAGCAATGGAAGAGTTTCCTGGGAGAAACACTCATCATTGTGGGA
                                       860
                                                            870
920
                                       930
                                                        940
                                                                           950
950 960 970 980 X
GTGGGGCAGAGCTGGAAGGAGAACTCCCCACTGAATGTTTCATAA
de de la compage de la comp
                                                        1010
ACTGCCTGCACGGCACTGTTGCG
1050 1060
```

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GAATGTGACCGTAGAAGATGAACGGACTTTAGTCAGAAGGAACAACACTTTCCTAAGCCTCCGGGATGTTTT
    GAACGTCGTIGTAAAAGACICACTTACATTAGTCAGAAAGAATGGTACATTCCTCACCCTGCGGCAAGTCTT
   500
             510
                        520
                                   530
                                              540
                                                        550
                                                                   560
    630
           580
                      590
                                            610
                                                      620
                                 600
                                    740
                                               750
    CACTAATGAGTTTTTGATTGATGTGGATAAAGGAGAAAACTACTGTTTCAGTGTTCAAGCAGTGATTCCCTC
    CACCAATGAATCTCGATTGATGTCGAAGAAGGAGTAAGCTACTGCTTTTTTGTACAAGCTATGATTTTCTC
                    660
                              670
                                         680
                                                    690
                                                               700
                                                                          710
         650
  780
                       800
                                  810
                                             820
    CCGAACAGTTAACCGGAAGAGTACAGACAGCCCGGTAGAGTGTATGGGCCAGGAGAAAGGG--GAATT--CA
    CAGGAAAACTAACCAAAATAGCCCAGGAAG--CAGTACAGTG--TGCACC--GAGCAATGGAAGAGTTTCCT
                            740
                                                      760
                                                                   770
                                                                              780
       720
                 730
                                         750
    850 860 870 880 890 900 910 G--AGAAATATICTACATCATCGGAGCTGTGGTATTTGTGGTCATCATCCTTGTCATCATCCTGGCTATATC
    820
                                                      830
                                                                 840
           790
                      800
                                 810
                         940
                                               960
                                    950
    TCTACACAAGTGTAGAAAGGCAGGAGTGGGGCAGAGCTGGAAGGAGAACTCCCCACTGAATGTTTCATAA
    tctgtgcaagcgcagaaagcagagcgggacagaaggga---Agaacaccccgtcgcgcttggcatagag
                                         890
                                                                  910
         860
                    870
                              880
                                                       900
    GAAAGGCTGAAGCGCTAACGCTCACACTGCCTGCACGGCACTGTTGCG
                                950
                     940
9. FURM-969863-FIG2.SEQ (1-987)
   MUSTF
                Mouse tissue factor (atf) mRNA, complete cds.
              MUSTF
                                                                   15-DEC-1989
 LOCUS
                           1821 bp ss-ARNA
 DEFINITION
             Mouse tissue factor (atf) mRNA, complete cds.
 ACCESSION
             M26071
             membrane-bound glycoprotein; tissue factor.
Mouse (strain BALB/c) fibroblast 3T3 cell line, cDNA to mRNA, and DNA (bp 1-41), clone 3CH 482.
 KEYWORDS
 SOURCE
   ORGANISM
             Mus ausculus
             Eukaryota; Animalia; Chordata; Vertebrata; Mammalia; Theria;
Eutheria; Rodentia; Myomorpha; Muridae; Murinae.
 REFERENCE
                (bases 1 to 1821)
             Hartzell, S., Ryder, K., Lanahan, A.A., Lau, L.F. and Nathans, D.
   AUTHORS
             A growth factor-responsive gene of murine BALB/c 3T3 cells encodes a protein homologous to human tissue factor Mol. Cell. Biol. 9, 2567-2573 (1989)
   TITLE
   JOURNAL
   STANDARD
             full automatic
             Draft entry and computer-readable sequence for [1] kindly submitted by S.Hartzell, 12-JUL-1989.
NCBI gi: 201924
 COMMENT
                       Location/Qualifiers
29..1821
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      ARNA
                       /note="TFP mRNA"
                       135..1019
      CDS
                       /note="tissue factor protein; NCBI gi: 201925."
                       /codon start=1
                       /transTation="MAILVRPRLLAALAPTFLGCLLLQVTAGAGIPEKAFNLTWISTD FKTILEWQPKPTNYTYTVQISDRSRNWKNKCFSTTDTECDLTDEIVKDVTWAYEAKVL
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                       DSLTLVRKNGTFLTLRQVFGKDLGYIITYRKGSSTGKKTNITNTNEFSIDVEEGVSYC
                       FFV@AMIFSRKTN@NSPGSSTVCTE@WKSFLGETLIIVGAVVLLATIFIILLSISLCK
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                       1..1821
                       /organism="Mus musculus"
 BASE COUNT
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                           415 c
                                    412 q
                                               478 t
 ORIGIN
             Unreported
                                                    582 Significance = 23.29
632 Mismatches = 321
                           Optimized Score =
Initial Score
                       61% Matches
Residue Identity =
                        77 Conservative Substitutions
Gaps
                             CTCGCA--CTCCCTCTGGCCGG--CCCAGGGCGC-CTTCAGCCCAAC-C
    TTTATAACGCACCCGCGCGCACCCCGGCAGCCTGGGTACCGGTACCCATCACTCGCTCCGATCGC
```

590

600

```
8. FURM-969863-FIG2.SEQ (1-987)
   MUSTFA
                Mouse tissue factor mRNA, complete cds.
LOCUS
DEFINITION
             MUSTFA
                           1262 bp ss-aRNA
                                                       ROD
                                                                  23-JAN-1991
             Mouse tissue factor aRNA, complete cds.
M57896 J05713
tissue factor.
ACCESSION
KEYWORDS
SOURCE
             Mouse (strain AKR) embruo fibroblast, cDNA to mRNA, clone c70.
   ORGANISM
             Mus Ausculus
             Eukaryota; Animalia; Chordata; Vertebrata; Mammalia; Theria;
             Eutheria; Rodentia; Myomorpha; Muridae; Murinae.
REFERENCE
                (bases 1 to 1262)
   AUTHORS
             Ranganathan, G., Blatti, S.P., Subramaniam, M., Fass, D.N., Maihle, N.J.
             and Getz, M.J.
   TITLE
             Cloning of murine tissue factor and regulation of gene expression
             by transforming growth factor type beta-1
J. Biol. Chem. 266, 496-501 (1991)
   JOURNAL
   STANDARD
             full automatic
NCBI gi: 201926
COMMENT
                       Location/Qualifiers
FEATURES
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                       /product="tissue factor"
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                       DSLTLVRKNGTFLTLRØVFGKDLGYIITYRKGSSTGKKTNITNTNEFSIDVEEGVSYC
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                       1..1262
      source
                       /organism="Mus_musculus"
BASE COUNT
                 358 a
                           317 с
                                   305 g
                                             282 t
ORIGIN
Initial Score
                       344 Optimized Score =
                                                   549 Significance = 23.36
                                                   593 Mišmatches
Residue Identity =
                       62%
                           Matches
                            Conservative Substitutions
Gaps
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                                                         TEAAGCCCCGAGACCTCGCCTC
                                                                 10
                                                                           20
    CAACTGGTAGACATGGAGACCCCTGCCTGGCCCCGGGTCCCGCGCC-CCGAGACCGCCGTCGCTCGGACGCT
                                          CAGCCCTTGGACATGGCGATCC-
                           --Tegtg
                                    --çç
          30
                    40
                                     50
                                                               70
                                                   60
                                  190
                                             200
                                                       210
    CCTGCTCGGCTGGGTCTTCGCCCAGGTGGCCGGCGCTTCAGGCACTACAAATACTGTGGCAGCATATAATTT
        ctceectecctcctcctcheetearceceetecheechtecheagaanae-cetttaatttaactt
           90
                     100
                               110
                                          120
                                                    130
                                                                140
                                590
    AACTTGGAAATCAACTAATTTCAAGACAATTTTGGAGTGGGAACCCAAAC--CCGTCAAT--CAAGTCTACA
                                -ATHHEGAGTEGCAACCCAAACCCACCAACTAHACCTACACHETA
    GGATATCAACTGATTTCAAGACA---
                   170
                                             190
                                                       500
                                                                  210
         160
                                  180
                                                                            550
    100 310 320 330 340 350 360
CTGTTCAAATAAGCACTAAGTCAGGAGATTGGAAAAGCA--AATGCTTTTACACAACAGACACAGAGTGTGA
    CAGAT-AAGTGATC---GATCTAGAAACTGGAAAAACAAGTGCTTCTCGACCAC-AGACACCGAGTGCGACC
            530
                          240
                                    250
                                               260
                                                                     280
                                 390
    CCTCA-CCGA---CG---AGATTGTGA--AGG--ATGTGAAGCAGACGTACT---TG--GCACGGGTCTTCT
    TCACAGACGAGATCGTGAAGGATGTGACCTGGGCCTATGAAGCAAAGGTCCTCTGTCCCACGGAGGAACT
    290
              300
                         310
                                   320
                                              330
                                                         340
                                                                   350
                                            460
    CCTACCCGGCAGGGAATGTGGAGAGCACC----GGTTC-TGCTGGGGAGCCTCTGTATGAGAACTCCCCAGA
    CAGTTCATG--GGGA---CGGAGACCAACTTGTGATTCATGGGGAGGAGCCGCCATTTACAAACGCCCCAAA
  360
              370
                                      390
                            380
                                                 400
                                                            410
                                                                      420
    GTTCACĂCCTTACCTGĞĂĞACAAACCTCĞGACAGCCĂĂCAATTCAGĂGTTTTGAACAĞĞTGĞGAACAAAAGT
    CTTTTACCTTACCGAGACACAAAACCTCGGACAGCCAGTAATTCACCAGTTGAACAAGATCGTAGAAAAACT
```

460 470 480

```
CAGGGCGCCTTCAGCCCAACCTCCCCAGCCCCACGGGCGCCACGGAACCCGCTCGATCTCGCCGCCAACTGG
   870
   100 110 120 130 140 150 160 TAGACATEGAGACCCCTGCCTGCCTGCTCGGTCCTGCTCG
   tagacatecadeccctecctecctectce
     920
                                        940
                                                       950
                                                                            960
   170 180 190 200 210 220 230 GCTGGGTCTTCGCCCAGGTGGCCGGCGCTTCAGG-CACT-ACA-AATACTGTGGCAGCATATAATTTAACTT
   ccteeftcttceccheeteccecccttcheetechetcheeteccecccteehabeccceeecc--
                                  1010
                                                    1020
                                                                     1030
 990
   240 250 260 270 280 290 300 GGAAATCAACTAATTTCAAGACAATTTTGGAGTGGGAAC--CCAAACCC--GTCAATCAAGTCTACACTGTT
   --AcAcacAagAagaAagacdAcAatccted-ctdacAacaaactcaccctaattccccaadaacacccatdtt
                                                                     1100
                                   1080
                                                 1090
   310 320 330 340 350 360 370 CAAATAAGC-ACTAAGTCAGGAGATTG-GAAAAGCAAATGCTTTTACACAAACAGACAGAGTGTGAC-CTC
   arccccccccchaceahcrccachcccccccchaccccacctrah-Arah---Accahatccartaacac
                                                      1160
   380 390 400 410 420 430 440 ACCGACGAGGATTGTGAAGGATGTGAAGCAGACGTACTTGGCACGGGTCTTCTCCTACC-CGGCAGGGAAT--
   GCCGGCGGGAGT-TGCAGGGAG-GGAGTTGGCGCCCCAGACCCCG--CTGCCCCTTCCGCTGGAGAGTTTTG
                                           1220
                                                                                  1240
                       1210
                                                             1230
   450 460 470 480 490 500 GTGGAGAGCACCG-GTTCTGCTGGGGAGCCTCTG--TATGAGAACTCCCCAGAGTTCACACCTTA--CCTGG
   ctcggggtgtccgagtaat--tggactgttgttgcataagcggact---tttagctccggtttaactctgg
                         1280
                                             1290
                                                              1300
                                                                                      1310
   10 520 530 540 550 560 570 AGACAAACCT---CGGACAACAATTCAGAGTTTTGAACAGTGGGAACAAAAGTGAATGTGACCGT
   GLANAGGGCTTCCCAGTGAGTTGCGACCTTCAATATGATAGGACTTGTGCCTGCGTCTGCACGTGTTGGCGT
                                                 1360
                                                                   1370
                                                                                     1380
   580 590 600 610 620 630 AGAAGATGAACACTT--TCCTAAGCCTCCGGGATGTTTT--
   -GCAGAGGTTTGGATATTATCTTCATTATATGTGCATCTTCCCTTAATAAAGAGCGTCCCTGGTCTTTCC
                                                              1440
                             1420
                                             1430
                                                                                 1450
   tecce--tett-tettetagetttegetagaechatecamaaegetechtte----etecttagatteg
                                                1500
                                                                   1510
   710 720 730 740 750 760 770 AAÇACTAATGAGTTTTTGATTGATGTGGATAAAGGAGAAAACTACTGTTTCAGTGTTCAAGCAGTGATTCCC
   Agechaget Acade the target of target of the target of target
                            1560
1540
               1550
                                                 1570
                                                                    1580
   780 790 800 810 820 830 840 TCCCGAACAGTTAACCGGAAGAGTACAGACAGCC---CGGTAGAGTGTATGGGCCAGGAGAAAGGGGAATTC
   tgctg---cgt--Actgcchang--chgaccttcatanganathat-cctgatcca--Atachgccga---c
   1610
   GGTGTGACAGGCCACA-CGTCCCCG-TG-GGTCTCTGTGG-----AAGTTT-----CAGTGTAGCGACATTT
                                                               1700
                      1680
                                            1690
   920 930 940 950 960 970
C-TACACAAGTGTAGAAAGGCAGGAGTGG---GGCAGAGCTGGAAGGAG----AACTC----CCCAC-TG--
   CAGATAAAAGTGGAAAAAGTGAAGTTTGGCTTTTTTCATTTGTATGCAGTCCTAACTCTTGTCACACGTGTG
      1730
                     1740
                                      1750
                                                     1760
                                                                       1770
        ---AATGTTT---CATAA
   GGATTTATCTTTTCCATAACTTACTGAAAACCCTTCCTGGCGGGCTGAACCTGACTCTTCCTGAGCTGA
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```
7. FURM-969863-FIG2.SEQ (1-987)
                   Human tissue factor gene, complete cds.
 LOCUS
               HUMTFPB
                              13865 bp ds-DNA
                                                                PRI
                                                                             15-JUN-1989
 DEFINITION
               Human tissue factor gene, complete cds.
 ACCESSION
                J02846
 KEYWORDS
               Alu repeat; cell surface integral membrane protein;
               cell surface receptor; tissue factor.
Human DNA, clones lambda-TFL559,679,753,885,1377].
 SOURCE
   ORGANISM
               Homo sapiens
               Eukaryota; Animalia; Chordata; Vertebrata; Mammalia; Theria;
Eutheria; Primates; Haplorhini; Catarrhini; Hominidae.
1 (bases 1 to 13865)
 REFERENCE
   AUTHORS
               Mackman, N., Morrissey, J.H., Fowler, B. and Edgington, T.S.
               Complete sequence of the human tissue factor gene, a highly
   TITLE
               regulated cellular receptor that initiates the coagulation protease
               cascade
   JOURNAL
               Biochemistry 28, 1755-1762 (1989)
               full automatic
Draft entry and computer-readable sequence for [1] kindly provided by J.H.Morrissey, 25-0CT-1988.
   STANDARD
 COMMENT
               NCBI gi: 339505
 FEATURES
                          Location/Qualifiers
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/note="tissue factor"
prim_transcript 799..13232
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                          2190..2301
       exon
                          /number=2
                          2302..6391
       intron
                          /note="TF intron B"
                          6127..6241
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                          /number=3
       intron
                          6592..9288
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                          8391..8677
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9289..9467
       exon
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11955..>12091
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12458..12757
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join(922..1021.2190..2301.6392..6591.9289..9467.
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                          /note="tissue factor; NCBI gi: 339506."
                          /codon_start=1
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DERTLVRRNNTFLSLRDVFGKDLIYTLYYWKSSSSGKKTAKTNTNEFLIDVDKGENYC
                          FSVQAVIPSRTVNRKSTDSPVECMGQEKGEFREIFYIIGAVVFVVIILVIILAISLHK
                          CRKAGVG@SWKENSPLNVS"
                           1..13865
       source
                          /organism="Homo sapiens"
2955 c 3240 g 395
 BASE COUNT
                                                    3959 t
 ORIGIN
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Initial Score
                          378 Optimized Score =
                                                           516
                                                                 Significance = 25.91
Residue Identity =
                                                           591
                          56%
                                Matches
                                                                 Mismatches
                                Conservative Substitutions
Gaps
                                                                 X 10 20 CTCGCACTCCCTCTGGCCGGCC
    TATAGCGCGCGGGCACCCCCAAGACTGCGAGCTCCCCGCACCCCCTCGCACTCCCTCTGGCCGCCC
```

780 790 800 810 820 X 830 840

```
CGAGCTCCCACAAACTCTGGGCTCCCCGCATCCCTCCCGGTTCATCCCGCAGCCCCA-GGTGCCTCCAGCCC
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     AACCTCGCAGCATCCTCACCTCCAGCCTCCGGGGCTCAGCGGAATTTTTGAGACCTCGCCGTCAGCTCCG
     100 110 120 130 140 150 160 AGACATGGAGACCCCTGCCTGGCCCCGGGTCCCGGGCCCCGAGACCGCCGTCGCTCGGACGCTCCTGCTCGG
     GGACATGGCGACCCCCAACGGCCCCCGGGTGCCCCCCAGGCCGCAGTCGCTCGGGCTCTTCTATTCGG
     170 180 190 200 210 220 230 CTGGGTCTTCGCCCAGGTGGCGGCGCTTCAGGCACTACAAATACTGTGGCAGCATATAACTTTGGAA
     CTTAGTCCTCATCCAGGGGGGCCGGAGTCGCCGGGACTACAGATGTAGTGGTAGCGTAATAATATAACTTGGAA
     300
                                                      310
                                                                                     320
     CCCTYBOY TYPE CONTROL OF THE CONTROL
                                                                               390
                                                                                                         400
     390 400 410 420 430 440 450 TGTGAAGGATGTGAAGGAGCACGGGTCTTCTCCTACCCGGCAGGGAATGTGGAGAGCACCGG
     450
                                                                          460
     460 470 480 490 500 510 520 TTCTGCTGGGGGACCTCTGTATGAGAACTCCCCAGAGTTCACACCTTACCTGGAGACAAACCTCGGACAGCCC
     500
                                       510
                                                             520
                                                                                             530
                                                                                                                     540
     530 540 550 560 570 580 590 AACAATTCAGAGTTTTGAACAGGTGGGAACAAAAGTGAATGTGACCGTAGAAGATGAACGGACTTTAGTCAG
     NACTON TO COMPANY TO C
    AGGAACAGCGCATTCCTAAGCCTCCGGGATGTTTTTGGCAAGGACTTAATTTATACACTTTATTATTGGAA
                                                                                                                                      690
                          650
                                                                                 670
                                                                                                             680
  640
                                                       660
    740
     AAACTATTGTTTCCATGTTCAAGCAGTGATTCTATCACGAAGGGTGAACCAGAAGAGTCCAGAAAGTCCCAT
                                            800
                                                                      810
                                                                                                  820
                                                                                                                              830
     820 830 840 850 860 870 880 AGAGTGTATTGGGGCCAGGAGAAGGGGGAATTCAGAGAATATTCTACATCATTGGAGCCTGTGGTATTTGTGGT
     CANGTGCACTAGCCACGAGAAAGTTCTGTCCACAGAACTTTTCTTCATCATTGCCACAGTGATGCTGGTGAT
                                       870
     890 900 910 920 930 940 950
CATCATCCTTGTCATCCTGGCTATATCTCTACACAAGTGTAGAAAGGCAGGAGTGGGGCAGAGCTGGAA
     CATCATCT CATCGT CGTCTGTGTGTGTGTGTGCAAAGTGCAGGAAGGTGAGAAGTGGGAA
     GGAGAACTCCCCACTGAATGTTTCATAÄ
     SENGANCACECCECT CHACECTECHTANAMAGATCCTECTCTTEGAGCTTTCTGCCAACGCTGCAGAGCTCGT
1000 1010 1020 1030
                                                                                               1040 1050 1060 1070
```

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                                                                    510
       450
                 460
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                                     480
                                                490
                                                          500
       600
                 610
                           620
                                     630
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    GtCAGAAGGAATGGGACATTCCTAAGTCTCCGGGCTGTGTTTGGCAAGGACTTGAATTACACGCTTTATTAC
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                         540
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                                                        570
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                                   700
                         690
               680
                                              710
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                                 620
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                                                                650
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                                                              720
           670
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                                                                         730
                               840
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                                                    850
                                                                        870
       810
                     820
                                         840
                                                              860
        960
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    GTGTTGCACTGT
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6. FURM-969863-FIG2.SEQ (1-987)
   S74147
               tissue factor [cattle, adrenal gland, ARNA, 1877 n
             S74147
                          1877 bp
                                                                10-JUL-1992
                                     ARNA
                                                      MAM
DEFINITION
            tissue factor [cattle, adrenal gland, ARNA, 1877 nt]
ACCESSION
             S74147
 KEYWORDS
SOURCE
             cattle adrenal gland
            Bos sp.
  ORGANISM
             Unclassified.
            Takayenoki,Y., Muta,T., Miyata,T. and Iwanaga,S. cDNA and amino acid sequences of bovine tissue factor Biochem. Biophys. Res. Commun. 181, 1145-1150 (1991)
REFERENCE
   AUTHORS
   TITLE
   JOURNAL
             full automatic
   STANDARD
             entry [NCBI gibbsq 74147] from the original journal article. This sequence comes from Fig.2.

NCBI gi: 241438
COMMENT
             GenBank staff at the National Library of Medicine created this
FEATURES
                      Location/Qualifiers
                      /note="TF; This sequence comes from Fig.2.
NCBI gi: 241439"
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                      /note="cattle"
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                                             520 t
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Initial Score
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                                                       Significance = 30.78
Residue Identity =
                      76%
                                                  770 Mismatches =
                           Matches
                           Conservative Substitutions
Gaps
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X 10 20 30 CTCGCACTCCCTCTGGCCGGCCCAGGGCGCCTTCAGCCC

```
LOCUS
                                                               08-MAY-1991
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                          1753 bp ss-aRNA
                                                     MAM
DEFINITION
             Rabbit tissue factor mRNA, complete cds.
ACCESSION
             M55390
 KEYWORDS
             tissue factor.
             Rabbit (strain New Zealand white) heart, cDNA to mRNA, clone pRTF1.
SOURCE
   ORGANISM
             Oryctolagus cuniculus
             Eukaryota; Animalia; Chordata; Vertebrata; Mammalia; Theria;
             Eutheria; Lagomorpha; Leporidae.
REFERENCE
                (bases 1 to 1753)
             Andrews, B.S., Rehatulla, A., Fowler, B.J., Edgington, T.S. and
   AUTHORS
   TITLE
             Conservation of tissue fator primary sequence among three mammalian
             species
            Gene 98, 265-269 (1991) full automatic
   JOURNAL
   STANDARD
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Initial Score
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Residue Identity =
                      76%
                                            =
                                                 702 Mismatches
                          Matches
                          Conservative Substitutions
                       15
Gaps
                                  50
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                                                      ATCCGCAC-TCCTTGTGGGC--
                                                               10
   ctggtagacatggagacccctgaccccgggtcccgggtcccggagacccctgtataccttataccgtgctg
                                            60
    CTCGGCTGGGTCTTCGCCCAGGTGGCCGGCGCTTCAGGCACTACAAATACTGTGGCAGCATATAATTTAACT
   ctcccctccttcctccccactccccccccccccdacacactacacata-
                                                           -gAGCAHAHAAHcHAACH
                     110
                               120
                                                         140
           100
                                         130
                                               280
    160
               170
                         180
                                   190
                                             200
                                                       210
                                                                  220
                         330
                                   340
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    ATAAGCACTAGGCTAGAAAACTGGAAGAGCAAATGTTTCTTAACCGCGGAGACGAGTGCGACCTCACCGAT
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             240
                       250
                                 590
                                           270
                                                     280
                                                                290
   380
             390
                       400
                                 410
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    GAGGTCGTGAAGGACGTGGGGCAGACGTACATGGCGCGGGTCCTCTCCTACCCGGCAAGGAACGGAAACACC
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                                         340
                                                   350
           310
                               330
                                                             360
                                                                        370
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    Acedegtroccoenegagectcoctriagnahactccccedaettcacectatcciggacacanaccitcec
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77% Matches = 613 Mismatches = 169
11 Conservative Substitutions = 0
Initial Score
Residue Identity =
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                                             GCAGACACTACAGGTA-----
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                                     260
                                             270
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   60
                           320
                                   330
                                            340
   ĂAGTCTACĂČŤGTTCAAAŤÂĂGCACTAAĞTCAGGAGATTĞĞAAAAGÇAĀATGCTTTTACĀÇAAÇAGAÇĀĢ
   ATGTCTACACAGTTCAGATAAGCACTAGGAAAACTGCAAGAGCAAATGTTTCTTAACCGCGCAGACGC
                         120
                                            140
                 110
                                   130
   370 380 390 400 410 420 430 AGTGTGACCTCACCGACGAGATTGTGAAGGATGTGAAGCAGACGTACTTGGCACGGGTCTTCTCCTACCCGG
                         390
   170
                       190
                              200
                                           210
   440 450 460 470 480 490 500 CAGGGAATGTGGAGAGCACCGGTTCTGCTGGGGAGCCTCTGTATGAGAACTCCCCAGAGTTCACACCCTTACC
   chaddangdenandchggadeddattgggdadddgggdcctttagaandttdddggadttchadgggathdd
                       260
                                270
                                         280
   510 520 530 540 550 560 570 TGGAGACAAACCTCGGACCAACAACTCAGAGTTTTGAACAGGTGGGAACAAAAGTGAATGTGACCGTAG
   310
            320
                     330
                             340
                                      350
   580 590 600 610 620 630 640 AAGATGAACGGACTTTAGTCAGAAGGAACAACACTTTCCTAAGCCTCCGGGATGTTTTTTGGCAAGGACTTAA
   AggAtGCACGCACGCTGGTCAGAGGGAATGGGGACATTCCTAAGTCTCCGGGCTGTGTTTTGGCAAGGGACTTGA
                            410
                  670
                          680
                                  690
                                            700
   450
                                490
                                            500
                                                    510
         460
                 470
                         480
   550
                                  560
   800 810 820 830 840 850 860 GGAAGAGTACAGACAGCCCGGTAGAGTGTATGGGCCAGGAGAAGGGGGAATTCAGAGAAATATTCTACATCA
   ĸĠŖĠĠĠĠĊĊĊĠŖĠŖĠĠĊŢĊĸĊŦĠŖĠŢĠĊŖĊĊĸĠĊĠĠĠŖĠĊŔĠĠĠĠĸĠĠĊŖĠĠĠĠĸŦĠŦŦĊŢŦĠŔŦĊŔ
       600
               610
                        620
                                630
                                         640
   870 880 890 900 910 920 930 TTGGAGCTGTGGTATTTTGTGGTCATCATCCTTG-TCATCATCTTGGCTATATCTCTACACAAGTGTAGAAAG
                     890
   HEGAGCAGTGGTGGTCGTGGCCCT----CTTGATCATCGTCCTGTCTGTGACCGTGTACAAGTGCAGAAAG
                        690
                                 700
                                          710
                     960
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   CGGCTGCTGCCAATGCTGTGTTGCACTGT
          820
```

5. FURM-969863-FIG2.SEG (1-987)
RAPRIE Rabbit tissue factor mRNA, complete cds

```
480
                                                                                                                                                   490
                                                                       460
                                                                                                 470
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         420
                                                        430
       410
                                                                                 440
                                                                                                          450
                                                                                                                                    460
                                                                                                                                                             470
                                          520
                                                                                           540
                                                                                                                    550
                                                                                                                                             560
                                                                  530
          CTGGAGACAAACCTCGGACAGCCAACAATTCAGAGTTTTGAACAGGTGGGAACAAAAGTGAATGTGACCGTA
          CHECAGA LA LA COLLEGA LA LA CALLA CA
                                                    500
                                                                            510
                                                                                                     520
                                                                                                                                                       540
                           490
                                                                                                                              530
                                                                                                                                                                                550
            580
                                     590
                                                             600
                                                                                      610
                                                                                                               620
                                                                                                                                        630
          GAAGATGAACGGACTTTAGTCAGAAGGAACAACACTTTCCTAAGCCTCCGGGATGTTTTTGGCAAGGACTTA
          590
                      560
                                              570
                                                                       580
                                                                                                                         600
                                                                                                                                                  610
                                                                                                                                                                           620
                                                        670
                                                                                                          690
                                                                                 680
                                                                                                                                   700
       650
         630
                                         640
                                                                  650
                                                                                           660
                                                                                                                    670
                                                                                                                                             680
         700
                                    710
                                                             720
                                                                                     730
                                                                                                               740
                                                                                                                                        750
                                                                                                                                                                 760
         800 810 820 830 840 850 860 CGGGAAGAGTACAGACAGCCCGGTAGAGTGTATGGGCCAGGAGAAAGGGGAATTCAGAGAAATATTCTACATC
         CGGYYGY CANCACTOR CONTROL OF THE CON
                                                        790
       770
                                                                                 800
                                                                                                          810
                                                                                                                                   820
                                                                                                                                                            830
                                                                                                                                                                                     840
                                                                                           900
                                                                  890
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         850
                                                  860
                                                                            870
                                                                                                     880
                                                                                                                              890
                                                                                                                                                       900
                                                                                                                                                                                910
                                                             960
          GCAGGAGTGGGGCAGAGCTGGAAGGAGAACTCCCCACTGAATGTTTCATAA
          CONGGACTEGEGECAGAGCTGGAAGGAGAACTCCCCACTGAATGTTTCATAAAGGAAGCACTGTTGGAGCTAC
                                              930
                                                                       940
                                                                                                950
                                                                                                                         960 X
          TGCAAATGCTATATTGCACTGTGACCGAG
                 990
                                      1000
                                                               1010
4. FURM-969863-FIG2.SEQ (1-987)
       OCBTF
                                      O.cuniculus mRNA for brain tissue factor
                               OCBTF
                                                               1300 bp
                                                                                           RNA
                                                                                                                                                            31-0CT-1991
  DEFINITION
                              O.cuniculus mRNA for brain tissue factor
  ACCESSION
                               X53521
  KEYWORDS
                               brain tissue factor.
  SOURCE
                                rabbit
       ORGANISM
                               Oryctolagus cuniculus
                               Eukaryota; Animalia; Metazoa; Chordata; Vertebrata; Mammalia;
                                Theria; Eutheria; Lagomorpha; Leporidae.
  REFERENCE
                               1 (bases 1 to 1300)
       AUTHORS
                               Pawashe, A.B.
                               Direct Submission
       TITLE
                               Submitted (03-JUL-1990) Pawashe A.B., Yale University, SHM C 115, Dept. of Molecular Biophisics & Biochemistry, 333 Cedar Street, POB
       JOURNAL
                                3333, New Haven, CT 06510, USA.
       STANDARD
                               full automatic
                                2 (bases 1 to 1300)
  REFERENCE
       AUTHORS
                               Pawashe, A.B., Konigsberg, W.K. and Ezekowitz, M.D.
       TITLE
                                Molecular Cloning, Characterization and Expression of cDNA for
                                Rabbit Brain Tissue Factor
       JOURNAL
                                Thromb. Haemost. 66, 315-320 (1991)
                               full automatic
NCBI gi: 1495
       STANDARD
  COMMENT
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                                                      5..111
                                                      /number=2
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              PYON
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3. FURM-969863-FIG2.SEQ (1-987)
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  LOCUS
                                                2104 bp ss-aRNA
  DEFINITION
                        Human tissue factor ARNA, complete cds, with an Alu repeat in the
                        3' untranslated region.
  ACCESSION
  KEYWORDS
                        Alu repeat; plasma membrane glycoprotein; tissue factor.
  SOURCE
                        Human placenta, cDNA to mRNA, clones lambda-hTF[3,7,8,12].
     ORGANISM
                        Homo sapiens
                        Eukaryota: Animalia: Chordata: Vertebrata: Mammalia: Theria: Eutheria: Primates: Haplorhini: Catarrhini: Hominidae.
                        1 (bases 1 to 2104)
Scarpati, E.M., Wen, D., Broze, G.J.Jr., Miletich, J.P., Flandermeyer, R.R., Siegel, N.R. and Sadler, J.E.
  REFERENCE
     AUTHORS
     TITLE
                        Human tissue factor: cDNA sequence and chromosome localization of
                        the gene
Biochemistry 26, 5234-5238 (1987)
      JOURNAL
     STANDARD
                        full automatic
                        Draft entry and computer-readable sequence for [1] kindly provided
by E.M.Scarpati, 04-AUG-1987.
NCBI gi: 339503
  COMMENT
                                         Location/Qualifiers
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/note="tissue factor"
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961 Mismatches = 2
                                                  Optimized Score =
Initial Score
                                         99%
                                                  Hatches
Residue Identity =
                                                                                 =
                                            0
                                                  Conservative Substitutions
Gaps
       CTCGCACTCCCTCTGGCCGGCCCAGGGCCCTTCAGCCCAACCTCCCCAGGCCCCACGGGCGCCACGGAACCC
                                                    de de la companya del companya de la companya del companya de la c
                                                                                      20
                                                                                                         30
                                                                   10
                                                                                                                            40
       80
                                                                                                   100
       GTCGCTCGGACGCTCCTCGGCTGGGTCTTCGCCCAGGTGGCCGGCGCTTCAGGCACTACAAATACTGTG
                    130
                                       140
                                                         150
                                                                            160
                                                                                               170
                                                                                                                  180
                                                                                                                                     190
                                              240
                                                                                    590
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       GCAGCATATAATTTAACTTGGAAATCAACTAATTTCAAGACAATTTTGGAGTGGGAACCCAAACCCGTCAAT
                                                                                            240
                 200
                                   210
                                                      220
                                                                                                                                  260
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       270
                               280
                                                  290
                                                                     300
                                                                                        310
                                                                                                           320
                                                                                                                              330
                                       380
                                                          390
                                                                             400
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                            350
                                              360
                                                                 370
                                                                                    380
                                                                                                       390
                                                                                                                          400
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```
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 20
                                           30
                                                          40
 dcttclatctcccccaabctclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatalacatclatacatclatalacatclatacatclatalacatclatacatclatacatclatacatclatacatclatacatclatacatclatacatclatacatclatacatclatacatclatacatclatacatclatacatclatacatclatacatclatacatclatacatclatacatclatacatclatacatclatacatclatacatclatacatclatacatclatacatclatacatclatacatclatacatclatacatclatacatclatacatclatacatclatacatclatacatclatacatclatacatclatacatclatacatclatacatclatacatclatacatclatacatclatacatclatacat
                                     100
                                                    110
                                                                   120
                                                  180
                                                                 190
 GTCGCTCGGACGCTCCTGCTCGGCTGGGTCTTCGCCCAGGTGGCCGGCGCTTCAGGCACTACAAATACTGTG
 150
                                   170
                                                                190
                    160
                                                 180
 220 230 240 250 260 270 280 GCAGCATATAATTTAACTTGGAAATCAACTAATTTCAAGACAATTTTGGAGTGGGAACCCAAACCCGTCAAT
    250
                                                              260
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 290
 CAAGTCTACACTGTTCAAATAAGCACTAAGTCAGGAGATTGGAAAAAGCAAATGCTTTTACACAAACAGACACA
290
              300
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                                            320
                                                          330
                                                                         340
                                                                                        350
 370 380 390 400 410 420 430 GAGTGTGACCTCACCGACGACATTGTGAAGGATGTGAAGCAGACGTACTTGGCACGGGTCTTCTCCTACCCG
 390
                                                        400
                                                                      410
 GCAGGGAATGTGGAGAGCACCGGTTCTGCTGGGGAGCCTCTGTATGAGAACTCCCCAGAGTTCACACCTTAC
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                                                    470
                                                                   480
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                                                  540
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                                   530
                                                                550
      510
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 580 590 600 610 620 630 640 GAAGATGAACGGACTTTAGTCAGAAGGAACAACACTTTCCTAAGCCTCCGGGATGTTTTTTGGCAAGGACTTA
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                                600
                                              610
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650
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                                         750
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                                                 900
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                                                             980
                                                                            990
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TGCAAATGCTATATTGCACTGTGACCGAG 1010 1020 1030

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660
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                                                             690
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                650
                                       670
                                                                         700
    700
                                                                      710
   650
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                         670
                                    680
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                                                                                 720
                                    740
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                                                           760
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    740
                                  750
                                             760
                                                         770
                                                                    780
                                                                               790
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                                              820
                                                         830
                                                                               850
                       800
                                  810
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                     810
                                820
                                           830
                                                       840
                                                                  850
                                                                             860
                     870
                                880
                                           890
                                                       900
                                                                  910
          860
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                  880
                              890
                                         900
                                                    910
                                                                920
                                                                           930
                                         960
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    AAGTGTAGAAAGGCAGGAGTGGGCAGAGCTGGAAGGAGAACTCCCCACTGAATGTTCATAAAGGAAGCAC
                950
                           960
                                       970
                                                  980
                                                             990
     940
                                                                       1000
    TGTTGGAGCTACTGCAAATGCTATATTGCACTGTGACCGAG
  1010
2. FURM-969863-FIG2.SEQ (1-987)
   HUMTEPC
                 Human tissue factor gene, complete cds, with a Alu
                            2127 bp ss-mRNA
              Human tissue factor gene, complete cds, with a Alu repetitive sequence in the 3' untranslated region.
 DEFINITION
 ACCESSION
              M27436
 KEYWORDS
              Alu repeat; plasma membrane glycoprotein; tissue factor;
              transmembrane protein.
 SOURCE
              Human adult adipose, cDNA to mRNA, clone lambda-TF14.
   ORGANISM
             Homo sapiens
              Eukaryota; Animalia; Chordata; Vertebrata; Mammalia; Theria; Eutheria; Primates; Haplorhini; Catarrhini; Hominidae.
 REFERENCE
                 (bases 1 to 2127)
              Fisher, K.L., Gorman, C.M., Vehar, G.A., O'Brien, D.P. and Lawn, R.M. Cloning and expression of human tissue factor cDNA Thromb. Res. 48, 89-99 (1987)
   AUTHORS
TITLE
   JOURNAL
   STANDARD
              full automatic
              Draft entry and computer-readable copy of sequence [1] kindly submitted by K.L.Fisher, 30-AUG-1989.
NCBI gi: 339507
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DERTLYRRNNTFLSLRDVFGKDLIYTLYYWKSSSSGKKTAKTNTNEFLIDVDKGENYC
                        FSV@AVIPSRTVNRKSTDSPVECHG@EKGEFREIFYIIGAVVFVVIILVIILAISLHK
                        CRKAGVG@SWKENSPLNVS"
                        1..2127
      source
                        /organism="Homo sapiens"
 BASE COUNT
                                                 599 t
                  606 a
                             450 c
                                       472 g
 ORIGIN
Initial Score
                        987
                            Optimized Score =
                                                       987
                                                            Significance = 71.51
Residue Identity =
                                                       987
                       100%
                             Matches
                                                            Mismatches
Gaps.
                              Conservative Substitutions
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           sig_peptide
                                        112..213
                                        /codon start=1
/note="tissue factor version 2 signal peptide"
                                        208..996
           mat_peptide
                                        /codon_start=1
/note="tissue factor version 1"
                                        214..996
          mat_peptide
                                        /codon_start=1
/note="tissue factor version 2"
          CDS
                                        112..999
                                        /gene="F3"
                                        /note="tissue factor versions 1 and 2 precursor; NCBI gi:
                                        339502.
                                        /codon_start=1
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DERTLVRRNNTFLSLRDVFGKDLIYTLYYWKSSSSGKKTAKTNTNEFLIDVDKGENYC
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607 a 454 c 478 g 602 t

87 bp upstream of TaqI site [Cell 50, 129-135 (1987)].
 BASE COUNT
 ORIGIN
                                        987 Optimized Score =
                                                                                          987 Significance = 71.51
Initial Score
                                      100% Matches
Residue Identity =
                                                                                          987
                                                                                                   Mismatches
Gaps
                                                 Conservative Substitutions
                             CGGGCGAACCCCTCGCACTCCCTCTGCCGGCCCACGGGCCCTTCAGCCCAACCTCCCAGCGCCCACGGGCC
                                        20
                                                          30
                                                                             40
                                                                                                50
                      10 X
                                                                                                                  60
       gccycety and a second a second and a second 
                                                     100
                                                                                          120
                  80
                                    90
                                                                       110
                                                                                                             130
                                                                                                                               140
       CCCGAGACCGCCGTCGCTCGGACGCTCCTGCTCGGCTGGGTCTTCGCCCAGGTGGCCGGCGCTTCAGGCACT
       150
                              160
                                                 170
                                                                    240
                                                                                                         260
      ACAÄÄTACTGTGGÄÄGCATATAAŤŤŤAACTTGGÄÄÄTCAACTAÄŤŤTCAAGACÄÄŤTTTGGAGŤGĞGAACCC ACAÄÄTACTGTGGÄÄÄTTTTGGAGŤGĞGAACCC ACAÄÄTACTGTGGÄÄÄTTTTGGAGŤGĞGAACCC
         220
                           230
                                              240
                                                                                   590
                                                                                                     270
                                                                                                                        280
                                                                250
       280 290 300 310 320 330 340 AAACCCGTCAATCAAGTCTACACTGTTCAAATAAGCACTAAGTCAGGAGATTGGAAAAGCAAATGCTTTTAC
                                                                310
       AAACCCG+CAA+CAAG+C+ACAC+G+++CAAA+AAGCAC+AAG+CAGGAGA++GGAAAAAGCAAAA+GC++++AC
     290
                        300
                                          310
                                                            320
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       ACAACAGACACAGAGTGTGACCTCACCGACGAGATTGTGAAGGATGTGAAGCAGACGTACTTGGCACGGGTC
                    370
                                      380
                                                         390
                                                                           400
                                                                                              410
                                                                                                                                   430
                                                                                                                 420
       TTCTCCTACCCGGCAGGGAATGTGGAGAGCACCGGTTCTGCTGGGGAGCCTCTGTATGAGAACTCCCCAGAG
       440
                                                                                                                               500
       500 510 520 530 540 550 560 TTCACACCTTACCTGGAGAAAACCTCGGACAGCCAACAATTCAGAGTTTTGAACAGGTGGGAACAAAAGTG
       550
             510
                               520
                                                 530
                                                                    540
                                                                                                         560
                               580
                                                                    600
                                                                                      610
                                                                                                         620
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```

590

600

610

620

640

```
*** 39
                                                                                   39.54
 4. OCBTF
                     O.cuniculus aRNA for -
                                                                             808
                                                                     361
                     Rabbit tissue factor ARM 1753
                                                                   560
 RABRTF
                                                                             693
                      **** 30 standard deviations above mean ****
                                                                    443
                                                                            759 30.78
 6. 574147
                     tissue factor [cattle, adrena 1877 443 **** 25 standard deviations above mean ****
                                                            1877
                                                                                             0
                                                                             516 25.91
 7. HUMTFPB
                     Human tissue factor gene, com 13865
                                                                                             0
                                                                    378
                      #*** 23 standard deviations above mean #***
                     Mouse tissue factor mRNA, com
Mouse tissue factor (mtf) mRN
                                                                             549
 8. MUSTFA
                                                            1262
                                                                     344
                                                                                   23.36
                                                                                   23.29
 9. MUSTF
                                                            1821
                                                                     343
                                                                             582
                                                                                             0
                      **** 21 standard deviations above mean ****
                     Rattus norvegicus Sprague-Daw
Rattus norvegicus Sprague-Daw
                                                            1683
10. RRU07619
                                                                     321
                                                                             555
                                                                                             0
                                                                                   21.64
11. RN07619
                                                            1683
                                                                     321
                                                                             555
                                                                                   21.64
                                                                                             0
                      **** 11 standard deviations above mean ****
12. MTPFZ1A
                                                                     179
                                                                             435
                                                                                             0
                     M.thermoformicicum complete p
                                                           11014
                                                                                   11.01
                      **** 8 standard deviations above mean ****
13. PSEPAHAB
                     P. putida DNA for reductase,
                                                            5840
                                                                     149
                                                                             419
                                                                                    8.76
                                                                                             0
                    Bacteriophage Mu genome right 1110 142
Clam cyclin A mRNA, complete 2163 139
**** 7 standard deviations above mean ****
14. XXMU01
                                                                             228
                                                                                    8.24
15. CLMCYCA
                                                                             429
                                                                                    8.01
                                                                                             0
16. $55744
                     T cell receptor variable gamm
                                                              446
                                                                     130
                                                                             197
17. DATCVG1
                                                              604
                                                                     130
                                                                             235
                                                                                    7.34
                                                                                             ٥
                     O.aries rearranged T-cell rec
18. RNSCIII
                     Rat mRNA for brain sodium cha
                                                             6822
                                                                     126
                                                                             407
                                                                                    7.04
                                                                                             0
                      **** 6 standard deviations above mean ****
                    Pig ribonuclease inhibitor (R
B.germanica mRNA for HMG-CoA
Figure 2. Sequence of the spo
                                                                     125
19. PIGRI
                                                            1256
                                                            3433
3360
2287
20. BGHMGCOA
                                                                     124
                                                                             426
                                                                                    6.89
                                                                     122
                                                                             410
21. M24537
                                                                                    6.74
                     Bos taurus (clone pCAMPDE-40)
22. BOVCNPA
                                                                             261
                                                                                    6.66
                     Bacillus subtilis penicillin-
Human STS UT1002.
                                                                                    6.59
6.51
                                                            5395
23. BACPBPE
                                                                     120
                                                                             415
24. HUMUT1002
                                                                     119
                                                                             217
                                                              532
25. BTCRYB1
                                                                             377
                                                                                    6.51
                     Bovine mRNA for beta-crystall
                                                              860
                                                                     119
26. HSEF1AL9
27. DROGGBCS
                     Human DNA for elongation fact
                                                             1823
                                                                     119
                                                                             336
                                                                                    6.51
                     D.melanogaster (clones T-beta
                                                             4590
                                                                     119
                                                                             416
                                                                                    6.51
28. GOTGLOBE
                                                           10194
                                                                     119
                                                                                    6.51
                     Goat betā globin locus activa
                                                                             421
                                                                                    6.29
29. HSCOMT1
                                                             1844
                                                                             419
                     H.sapiens catechol O-methyltr
                                                                     116
30. AA2LEFT
                     adeno-associated virus 2 left
                                                             2116
                                                                     116
                                                                             284
                                                                             425
425
31. MFAPOA4A
                     M.fascicularis gene for apoli
                                                             2858
                                                                                    6.29
                                                                     116
                     Adeno-associated virus 2, com
                                                                                    6.29
32. AA2CG
                                                             4675
                                                                     116
                    P.falciparum DNA for erythroc
Human DNA for arylsulphatase
                                                                     115
115
                                                                                    6.22
33. PFPPF248
                                                              509
                                                                             203
                                                                             399
34. HSARYLA
                                                             3637
35. BACMS@B
                     B.thuringiensis insecticidal
                                                             3753
                                                                     115
                                                                             422
                                                                                    6.22
                    Human fibroblast growth facto
Rhesus monkey p53 mRNA sequen
X.laevis AE-III mRNA for pept
{variable DNA region EhVR1} [
36. HUMFGFAA
                                                             3901
                                                                                    6.22
                                                                     115
                                                                             418
37. MACP53A
                                                                     114
                                                             2184
                                                                             416
                                                                                    6.14
38. XLAEIIIM
                                                                     114
                                                                             427
                                                                                    6.14
                                                             3618
39. 567111
                                                             1669
                                                                             392
                                                                                             0
                                                                     113
                                                                                    6.07
40. HSDAD
                     H.sapiens diamine oxidase gen
                                                            9903
                                                                     113
                                                                             417
                                                                                    6.07
```

1. FURM-969863-FIG2.SEQ (1-987) HUMTFP Human placental tissue factor (two forms) mRNA, co

LOCUS DEFINITION HUMTEP 2141 bp ss-ARNA PRI 15-JUN-1988 Human placental tissue factor (two forms) mRNA, complete cds. **ACCESSION** J02931 J02681 KEYWORDS membrane-bound glycoprotein; procoagulant protein; tissue factor. Human placenta, cDNA to mRNA, clones lambda-[10,3 and 10,4] [2]; fibroblast cell line WI38, cDNA to mRNA, library of J.Sorge, clones SOURCE lambda-CTF[2,3,4,5,22,23].

ORGANISM Homo sapiens

Eukaryota; Animalia; Chordata; Vertebrata; Mammalia; Theria; Eutheria; Primates; Haplorhini; Catarrhini; Hominidae.

REFERENCE (bases 79 to 1061)

AUTHORS TITLE

Morrissey, J.H., Fakhrai, H. and Edgington, T.S. Molecular cloning of the cDNA for tissue factor, the cellular receptor for the initiation of the coagulation protease cascade Cell 50, 129-135 (1987)

JOURNAL

full automatic STANDARD REFERENCE (bases 1 to 2141)

AUTHORS Spicer, E.K., Horton, R., Bloem, L.J., Bach, R., Williams, K.R.,

Guha.A., Kraus.J., Nemerson.Y. and Konigsberg.W.H.

Isolation of cDNA clones coding for human tissue factor: Primary

structure of the protein and cDNA Proc. Natl. Acad. Sci. U.S.A. 84, 5148-5152 (1987)

STANDARD full automatic

Draft entry and computer-readable sequence for [2] kindly provided by E.K.Spicer, 03-JUN-1987; and for [1] by J.H.Morrissey, 11-MAY-1987.

Two forms of tissue factor (light and heavy) are thought to be produced by differential cleavage at the 3' end of the signal peptide. The two forms of tissue factor are two amino acids different in length at the amino terminal of the mature protein and are otherwise identical.

A potential polyadenylation signal is located at positions 2119-2124. NCBI gi: 339501

oration/Aualifiers

FEATURES

TITLE

COMMENT

JOURNAL